



41P14SE0019 27 MIDLOTHIAN

010

Diamond Drilling

Township of Midlothian

Report No: 27

Work performed by: The Hanna Mining Company

| Claim No | Hole No | Footage | Date | Note |
|----------|---------|---------|--------|---------|
| L 367017 | M-74-1 | 220' | Apr/74 | (1) (2) |
| L 367013 | M-74-2 | 200' | Apr/74 | (1) (2) |
| L 367009 | M-74-3 | 274' | Apr/74 | (1) (2) |
| L 333624 | M-74-4 | 395' | Apr/74 | (1) (2) |
| L 333619 | M-74-5 | 200' | Apr/74 | (1) (2) |
| L 373064 | M-74-6 | 487' | May/74 | (1) (2) |

Notes:

- (1) 95/74
- (2) FURTHER INFORMATION FILE 63.3216 MEAP CG-70

Property Midlothian

THE HANNA MINING COMPANY

Sheet 2 of 5Logged by: J. Lake Location Claim 367017 Bearing: north Depth 220' Drill Hole No.: M-74-1Date: April 2, 1974 N. 162+50S Inclination: -45° Started: April 1, 1974Drilled by: Continental E. 56+00W Elevation: _____ Completed: April 3, 1974

| Footage | | Description | ANGLE OF BEDDING OR EQUATION TO CORE | | Samples | | | Assays |
|---------|----|---|---|-------|---------|------|----|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | |
| | | angular to subrounded fragments. The fragments are white to dark gray-green in colour and show no evidence of bedding. The fragments measure to two inches (1%) but the average is one-half inch. | | | | | | |
| | | 74-76 - Argillite - Carbonaceous - Fine-grained dark gray. Bedding is not distinct but occasional. Faint outlines of laminations appear distorted. Individual fragments are barely visible with the unaided eye (<1 mm). | 75 | 50° | | | | |
| | | 76-79 - Intermediate tuff breccia. Fine-grained dark gray-green as above. Rock is chlorite-rich and contains abundant carbonate. A few specks of pyrrhotite were noted. Fragments show angular plus well rounded characteristics. In general, the fragments are whiter than the matrix. Although all are intermediate and feldspathic in composition. | | | | | | |
| | | 79-81 - Carbonaceous Argillite. Fine-grained dark gray. Bedding or laminations are not well defined. Individual grains are not visible to the unaided eye. | 81 | 55° | | | | |
| | | 81-92 - Intermediate tuff breccia. Fine-grained dark gray-green. Fragments are angular to rounded and measure to one | | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 3 of 5

Logged by: J. Lake Location Claim 367017 Bearing: North Depth 220' Drill Hole No: N-74-1

Date: April 2, 1974 N: 162+50S Inclination: -45° Started: April 1, 1974

Drilled by: Continental E: 56+00W Elevation: _____ Completed: April 3, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | Assays | | | | | | | | |
|---------|-----|---|---------------------------------------|-------|---------|------|-----|-------------|--|--|--|--|---------|---------|---------|-------------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | | | | | |
| | | inch in diameter. Sulphides in the form of distinct pyrrhotite fragments, compose approximately 1/2 per cent of the rock. No bedding is apparent in this unit in the areas where the fragments are the largest. One pyrrhotite fragment at 90' measures 3/4" in diameter. One 1" fragment at 86' is acid volcanic in composition and shows very fine laminations. At 87' and again at 92' with gradation in grain size indicating tops up the hole, or south. The zone at 92' in particular shows knife-edge contacts (92'-93') | 92 | 65° | | | | | | | | | | | | |
| | | 92-97 - Argillite. Fine-grained dark gray rock is fine-grained and shows some fine tuff laminations. A four inch section of tuff breccia is found at 94'. Pyrite is present in small fragments (< 1/8" to 1/4"). | | | | | | | | | | | | | | |
| | | 97-99 as above, but light gray in colour and carbonatized, with visible fragments to 2 mm. Evidence of bedding is visible. Rock has a knife-edge contact at 97'. | | | | | | | | | | | | | | |
| 99 | 103 | Sulphide Zone - Four feet of massive pyrite. At base pyrite is fine grained and massive, but grades to colloform texture at top | | | 1526 | 99 | 103 | 4' | | | | | Cu% .01 | Ni% .01 | Zn% .01 | Au oz. .005 |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 4 of 5Logged by: J. Lake Location Claim 367017 Bearing: North Depth 220' Drill Hole No.: M-74-1Date: April 3, 1974 N. 162+50S Inclination: -45° Started: April 1, 1974Drilled by: Continental E. 56+00W. Elevation: _____ Completed: April 3, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | Assays |
|---------|-----|---|--|-------|---------|------|----|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | |
| 103 | 107 | Dolomitic Limestone. Fine-grained, gray. Rock contains abundant carbonate which effervesces with HCL. Distinct mottled appearance characteristic of carbonate rocks. The unit shows good bedding features at 107'. No sulphides are observed in this unit. | 117 | 40° | | | | |
| | | | 125 | 30° | | | | |
| | | | 134 | 30° | | | | |
| 107 | 217 | Carbonaceous Tuff. Laminated fine-grained dark gray rock. This unit shows good laminations which are fairly regular in their core angles. There is little evidence of deformation of the laminations. The colour of the rock is uniform. The rock is not hard. In contrast to the above units and contains no carbonate except for very minor carbonate veinlets to 1/16". Minor sulphides (pyrite) < 5% are found as rounded, zoned blebs to one-half inch. Minor pyrite crystals are found in a few tuff horizons which help to outline the bedding. These zones are not extensive (< 1 cm.) and compose less than one percent of the rock. | 155 | 5° | | | | |
| | | | 168 | 0° | | | | |
| | | | 172 | 20° | | | | |
| | | | 177 | 20° | | | | |
| | | | 182 | 55° | | | | |
| | | | 192 | 30° | | | | |
| | | | 197 | 30° | | | | |
| | | | 203 | 30° | | | | |
| 217 | 220 | Dacite. Fine-grained, massive dark gray-green rock, As in previous intermediate tuff breccias, this rock contains abundant carbonate. Very little sulphide is visible. A few | 206 | 45° | | | | |
| | | | 216 | 55° | | | | |
| | | | 220 | 65° | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 1 of 4Logged by: J. Lake John Lake Location Claim 367013 Bearing: North Depth 200' Drill Hole No: M-74-2Date: April 7, 1974 N. 161+50S Inclination: -45° Started: April 6, 1974Drilled by: Continental E. 24+00W Elevation: _____ Completed: April 7, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO COPE | | Samples | | | | Assays |
|---------|----|---|---------------------------------------|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| 0 | 8' | Overburden sand and gravel. | | | | | | | |
| 8 | 61 | Dacite. Fine-grained green-gray. The rock is fine-grained, feldspathic and chlorite-rich. It is massive and fine-textured. From 8'-32' the rock shows no structure and appears to be igneous. However, at 25' the grain-size becomes slightly larger. The rock is not highly altered. Numerous carbonate veinlets to 2 mm. cut the rock in irregular fashion. 33-36 - Breccia Zone. This rock is composed of altered angular fragments to three inches surrounded by secondary carbonate. The fragments are rectangular in outline. No sulphides are noted. 36-37 - Dacite as above but with five percent white angular fragments to two m.m. No bedding is noted. 37-50 - Dacite. Fine-grained green-gray rock. The rock is not highly altered and no sulphides are noted. Irregular carbonate veinlets to 0.5 cm. 50' - 51.2' - White calcite vein. Contains a few angular well rock dacite fragments to 1 cm. Calcite also contains few traces of secondary per-green chlorite. The contacts are | | | | | | | |
| | | | 43' | 75° | | | | | |

Property Midlothian

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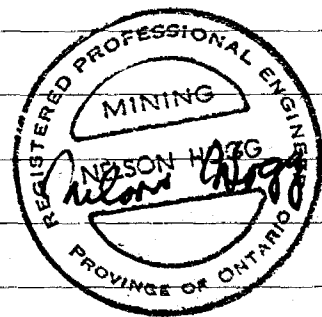
Sheet 4 of 4

Logged by: J. Lake Location Claim 367013 Bearing: _____ Depth _____ Drill Hole No.: M-74-2

Date: _____ N. _____ Inclination: _____ Started: April 6, 1974

Drilled by: Continental E. _____ Elevation: _____ Completed: April 7, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | |
|---------|-----|--|---------------------------------------|-------|---------|------|----|-------------|--------|--|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | |
| 167 | 200 | Serpentinite. Rock is dark gray to black, soft, talcose, and sheared. | 170 | 50° | | | | | | | | |
| | | 170.5 - 171 - The bands are extremely crenulated. This unit appears to be devoid of sulphides. | 175 | 45° | | | | | | | | |
| | | 182 - 200 - Fine-grained, gray-green in colour, highly altered. The rock is extremely high in chlorite and talc. content and contains very little carbonates. Rock shows poor core recovery. | 190 | 60° | | | | | | | | |
| | 200 | END OF HOLE. CORE RECOVERY 96% | | | | | | | | | | |



Property Midlothian

THE HANNA MINING COMPANY

Sheet 3 of 7Logged by:- B. L. Hodgins Location Claim 367009 Bearing:- 360° Depth _____ Drill Hole No.:- 74-3Date:- April 11, 1974 N.- 160+00S Inclination:- -46° Started: April 10, 1974Drilled by:- Continental E.- 16+00W Elevation:- _____ Completed:- April 11, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | |
|---------|---------------|---|--|-------|---------|-------|-------|----------------|--------|-----|----|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | Au | Ni | Cu |
| | | | | | | | | | oz | % | % |
| | 83 & 88.0 | 83.4 - 86.2 - <5% py and po 86.2 - 88 Well mineralized with pyrrhotite to 15% with 2-3% pyrite w/ abundant. | | | 1527 | 83.4 | 88 | 4.6 | Nil | .01 | |
| | 88.0 - 91.5 | <5% Sulphides 2" near massive band of py and po at 89. | | | 1528 | 88 | 91.5 | 3.5 | Nil | .01 | |
| | 91.5 - 94.4 | Near massive bands of po and py approx. 3:1 15 - 20% of core | | | 1529 | 91.5 | 94.4 | 2.5 | Nil | .01 | |
| | 94.4 - 96.8 | <5% py and po mainly as amygdule fillings and narrow streaks. | | | 1530 | 94.4 | 96.8 | 2.4 | Nil | .01 | |
| | 96.8 - 104.4 | About 10% sulphides irregularly distributed with numerous, near massive zones py and po approx. 1:1 | | | 1543 | 96.8 | 104.4 | 7.6 | Nil | .01 | |
| | 104.4 - 110.8 | <5% sulphide several narrow bands appr. 1" and disseminations throughout. | | | 1531 | 104.4 | 110.8 | 6.4 | Nil | .01 | |
| | 110.8 - 117.9 | <5% sulphides almost all disseminated with some streaks and stringers. | | | 1532 | 110.8 | 117.9 | 7.1 | Nil | .01 | |
| | 117.9 - 122.7 | 5-10% po with near massive po 117.9 - 118.5 and 119.0-119.5 w/minor py. | | | 1533 | 117.9 | 122.7 | 4.8 | Nil | .01 | |
| | 122.7 - 127.7 | <5% sulphides as above (110.8-117.9) | | | 1534 | 122.7 | 127.7 | 5.0 | Nil | .01 | |
| | 137 - 154 | Dacite as above 74.3 - 84.3 with pyrite as the main sulphide and minor po, w/ numerous dark gray to black zones that are weakly mineralized. Sulphide mineralization increases to 10% near end of section. Contact sharp, parallel sulphide banding in section near contact. | 154 | 60° | | | | 1.0 | Nil | .03 | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 5 of 7Logged by:- B. L. Hodgins Location Claim 367009 Bearing:- 360° Depth _____ Drill Hole No.:- 74-3Date:- April 11, 1974 N.- 160+00S Inclination:- -46° Started: April 10, 1974Drilled by:- Continental E.- 16+00W Elevation:- _____ Completed:- April 11, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | | |
|---------|----|--|---------------------------------------|-------|---------|-------|-------|-------------|--------|-----|-----|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | | |
| | | pyrrhotite, pyrite, and chalcopyrite and one speck of silvery metallic. Varies from light green-gray to a dark green - locally sections have a bluish cast. | | | | | | | | | | | |
| | | 185 - The rock is soft to very soft especially in the light coloured talcy zones. Locally the rock has a schistose fabric. Narrow breccia zones (flow type?) with drag folded carbonatized sections occur locally. Carbonate veins and zones are rare and usually less than 1.0' | 212 | 65° | | | | | | | | | |
| | | Some shear planes seem to be carbonaceous (black-streak) | 227 | 57° | | | | | | | | | |
| | | 195.0 - 197.3 - Talcosse zone - blocky approx. 5% very fine grained pyrite, pyrrhotite. | | | | | | | | | | | |
| | | 201.0 - 206.7 - Talcosse zone - blocky approx 1% very fine sulphides with mainly pyrrhotite and occasional specks chalcopyrite at 203.7 | | | 1536 | 201.0 | 206.7 | 5.7 | Nil | .21 | .01 | | |
| | | 206.7 - 208 - Rounded fragments ? probably a function of alteration. | | | 1537 | 206.7 | 211.0 | 4.3 | Nil | .16 | .02 | | |
| | | 206.7 - 216 - slightly talcy rock. | | | | | | | | | | | |
| | | 216.0 - 219.1 - dark gray green serpentine rock that is irregularly foliated and fractured with a gray white filling like magnesite? | | | 1538 | 211.0 | 216.0 | 5.0 | Nil | .15 | .01 | | |
| | | | | | 1539 | 216.0 | 219.1 | 3.1 | Nil | .29 | Nil | | |

Property: Midlothian

THE HANNA MINING COMPANY

Sheet 6 of 7Logged by: B. L. Hodgins Location Claim 367009 Bearing: 360° Depth _____ Drill Hole No.: 74-3Date: April 11, 1974 N.: 160+00S Inclination: -46° Started: April 10, 1974Drilled by: Continental E.: 16+00W Elevation: _____ Completed: April 11, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | |
|---------|----|---|--|------------|---------|-------|-------|----------------|-----------|---------|---------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | Au oz. | Ni % | Cu % |
| | | 217.0 - speck chalcopyrite ? with minor po and py disseminations. | | | | | | | | | |
| | | 219.1 - Contact sharp | | Approx 80° | | | | | | | |
| | | 219.1 - 221.2 - Relatively massive light coloured talcose rock. | | | 1540 | 219.1 | 221.2 | 2.1 | Nil | .26 | Nil |
| | | 221.2 - 225.2 - Flow breccia zone ? Gray green to dark gray green at 225.2 | | | 1541 | 221.2 | 225.2 | 4.0 | .005 | .21 | Nil |
| | | 225.2 - 226.7 - Dark green zone as above | | | 1542 | 225.2 | 226.7 | 1.5 | Nil | .20 | Nil |
| | | 216.0 - 219.1 - serpentinitic as above | | | | | | | | | |
| | | 226.7 - Well foliated dark gray green that seems to be brecciated (flow) through 228.3 - appears to be a fine textured massive unit below that breccia zone. Fragments dark gray green rounded with serpentinitic streaks | 227 | 57° | | | | | | | |
| | | | 251 | 60° | | | | | | | |
| | | 252.0 - 252.8 - medium texture | | | | | | | | | |
| | | 252.8 - 253.3 - light gray-green zone. Contacts irregular - has inclusions of dark serpentinitic rock - May be a breccia . | | | | | | | | | |
| | | 253.3 - 2555- fine textured dark green rock, 255 - 257.0 - dark green fine textured zone | | | | | | | | | |
| | | 257 - becoming lighter coloured and progressively more talcose. | | | | | | | | | |
| | | 261.8 - 262.4 - light gray-white talcose zone, dark green gray to 267.0 | 240 | 50° | | | | | | | |

Property Midlothian

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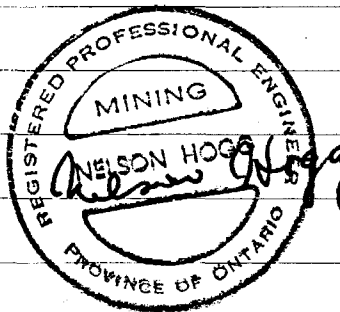
Sheet 7 of 7

Logged by: B. L. Hodgins Location Claim 367009 Bearing: 360° Depth _____ Drill Hole No.: 74-3

Date: April 11, 1974 N. 160+00S Inclination: -46° Started: April 10, 1974

Drilled by: Continental E. 16+00W Elevation: _____ Completed: April 11, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | |
|---------|----|---|---------------------------------------|-------|---------|------|----|-------------|--------|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | |
| | | 267 - 267.6 - dark green serpentinitic zone mineralized with very fine grained sulphide as po, py to approx. 2% as streaks and disseminations. | | | | | | | | |
| | | 267.6 - 268.5 - light colour gray zone that has talcy texture - seems to be a felsic dike - contacts irregular and sharp - lower contact has carbonate band approx. 1.5". foliation | 267.6 | 75° | | | | | | |
| | | | 268.5 | 60° | | | | | | |
| | | | 255 | 50° | | | | | | |
| | | 268.5 - 274 - highly altered section with abundant carbonate as cross cutting streaks and bands. foliation | 272 | 50° | | | | | | |
| | | 273 - 274 - Appears to be a breccia zone with rounded frags as before - not carbonatized - mineralized with approx. 1% fractural pyrite. | | | | | | | | |
| | | 274 - End of Hole | | | | | | | | |
| | | Core Recovery: - 93.7% | | | | | | | | |



Property Midlothian

THE HANNA MINING COMPANY

Sheet 8 of 12Logged by: N. Hogg Location Claim 333624 Bearing: _____ Depth _____ Drill Hole No.: 74-4Date: _____ N.: _____ Inclination: _____ Started: April 19, 1974Drilled by: Continental E.: _____ Elevation: _____ Completed: April 23, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | |
|---------|----|--|---|-------|---------|-------|-------|----------------|-----------|------------|------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | Au oz. | Zn ppm. | Cu ppm. | S % |
| | | | Section is carbonaceous with few gray felsic frags. | | | | | | | | | |
| | | 141.8 - 143.7 - Breccia - 90% dark gray and light gray felsic frags to 1/2 in. | | | | | | | | | | |
| | | 143.7 - 144.5 - well mineralized with pyrite to 50% . | | | | | | | | | | |
| | | Py is with hard, black carbonaceous matrix. Few gray frags. | | | | | | | | | | |
| | | 144.5 -145.2 - Gray felsite bx - 90% frags -carbonate matrix | | | | | | | | | | |
| | | 145.2 - 147.1 -about 30% Py with hard black carbonaceous siliceous material. | | | 1546 | 145.2 | 150.5 | 5.3 | Nil | 110 | 50 | 15.44 |
| | | 147.1 -148.1 - Bx -Gray rounded frags. in carbonate matrix. | | | | | | | | | | |
| | | 148.1 -149.2 - 70% Py with black carb. material. | | | | | | | | | | |
| | | 1 1/2 - 2" frags. of gray felsic volcanic. | | | | | | | | | | |
| | | 149.2 -150.0 - Gray siliceous bx - 90% frags to 1" - carbonate matrix | | | | | | | | | | |
| | | 150.0 -150.5 - 50% Py with black matrix and gray siliceous frags. | | | | | | | | | | |
| | | 150.5 - 152.3 -Bx-Well rounded frags to 1 1/2" of light gray and dark gray rhyolite and few of hard black carbonaceous material. | | | | | | | | | | |
| | | 152.3- 155.3 - 20-30% Py with black carb. matrix -50% gray siliceous frags to 1 in.- mostly angular. | | | 1547 | 152.3 | 157.8 | 5.5 | Nil | 72 | 32 | 14.56 |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 8 of 12

Logged by:- N. Hogg Location Claim 333624 Bearing:- _____ Depth _____ Drill Hole No.:- 74-4

Date:- _____ N.:- _____ Inclination:- _____ Started: April 19, 1974

Drilled by:- Continental E.:- _____ Elevation:- _____ Completed:- April 23, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | | | |
|---------|----|---|---------------------------------------|-------|---------|-------|-------|-------------|--------|--|--|--|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | | | |
| | | 253.0 - 254.2 - 70% Py in breccia | | | | | | | | | | | | |
| | | 254.2 - 254.6 - Rhyolitic bx. Sharp contact at 50° | 254.6 | 50° | | | | | | | | | | |
| | | 254.6 - 255.5 - 50% Py - in part round, concretionary and in part fragmental. | | | | | | | | | | | | |
| | | 255.5 - 262.3 - 10% Py with carbonate matrix in bx - round gray felsite frags to 1 in. Some dark gray, smaller frags. | | | | | | | | | | | | |
| | | 262.3 - 267.6 - 70% Py with black carbonaceous material and few light gray frags. Contact at 262 has shearing at 60° and at 267.6 is sharply defined at 50° | 267.6 | 50° | 1550 | 262.0 | 267.6 | 5.6 | | | | | | |
| | | Pyrite is brecciated. | | | | | | | | | | | | |
| | | 267.6 - 269.4 - Gray siliceous Bx - Gray carbonate matrix. | | | | | | | | | | | | |
| | | 269.4 - 270.4 - 70% Pyrite with black carbonaceous material. | | | | | | | | | | | | |
| | | 270.4 - 271.7 - Breccia - 80% frags. | | | | | | | | | | | | |
| | | 271.7 - 271.9 - Massive Pyrite in band at 52° to core | 271.7 | 52° | | | | | | | | | | |
| | | 271.9 - 274.1 - Breccia - 90% frags to 1/2" - mostly dark gray. | | | | | | | | | | | | |
| | | 274.1 - 276.0 - 80% Py - 1 ft. core lost | | | | | | | | | | | | |
| | | 276 - 280 - Weathered breccia - carbonate matrix decomposed - Only 0.6' recovered | | | | | | | | | | | | |

| AU | Zn | Cu | S |
|-----|-----|-----|-------|
| oz. | oz. | oz. | % |
| Nil | 96 | 35 | 28.06 |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 10 of 12

Logged by:- N. Hogg Location Claim 333624 Bearing:- _____ Depth _____ Drill Hole No.:- 74-4

Date:- _____ N.- _____ Inclination:- _____ Started: April 19, 1974

Drilled by:- Continental E.- _____ Elevation:- _____ Completed:- April 23, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | | |
|---------|----|---|--|-------|---------|------|-----|-------------|--------|--|--|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | | |
| | | rhyolitic breccia - 80% frags - Round light gray and dark gray frags to 2 ins. - Matrix of carbonate has small closely packed angular frags. 1 foot is chopped, ground fragments of bx. | | | | | | | | | | | |
| | | 312 - 316 - 1/2 inch recovered - gray felsite | | | | | | | | | | | |
| | | 316 - 317 - 2 inches recovered - ground up chips of felsite and decomposed bx. | | | | | | | | | | | |
| | | 317 - 319 - 6 ins. recovered - Ground up chips of gray felsite and dark gray volcanic. | | | | | | | | | | | |
| | | 319 - 321 - 9 inches recovered - Fragments of partly decomposed breccia. | | | | | | | | | | | |
| | | 321 - 324 - 2 ft. recovered - partly decomposed breccia - Carbonate matrix partly gone and light gray fragments are white, porcelainic. | | | | | | | | | | | |
| | | 324 - 326 - 1.6 ft. recovered - same as above | Sludge | | 1446 | 317 | 326 | 9 | | | | | |
| | | 326 - 328 - 10 ins. recovered - same as above | | | | | | | | | | | |
| | | 328 - 329.8 - Breccia - leached as above | Sludge | | 1447 | 326 | 336 | 10 | | | | | |

| Au | Zn | Cu | S |
|-----|-----|-----|---|
| oz. | PPM | PPM | % |

| | | | |
|-----|-----|-----|--|
| Nil | 552 | 518 | |
|-----|-----|-----|--|

| | | | |
|-----|-----|-----|--|
| Nil | 590 | 660 | |
|-----|-----|-----|--|

Property Midlothian

THE HANNA MINING COMPANY

Sheet 11 of 12Logged by:- N. Hogg Location Claim 333624 Bearing:- _____ Depth _____ Drill Hole No.:- 74-4Date:- _____ N.- _____ Inclination:- _____ Started: April 19, 1974Drilled by:- Continental E.- _____ Elevation:- _____ Completed:- April 23, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | |
|--------------|------------|--|--|-------|-------------|--------------|------------|----------------|--------|--|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | |
| 329.8 | 395 | Zone of sulphide mineralization in rhyolite breccia | | | | | | | | | | |
| | | 329.8 - 330 - Massive, fine grained pyrite | | | | | | | | | | |
| | | 330 - 331 - Most core recovered in ground-up chips which are nearly all massive pyrite, except 2 ins. of partly leached breccia - Some pyrite has radiating texture and some has fine cubic crystals. | | | | | | | | | | |
| | | 331 - 332 - 2 ins. recovered is massive fine pyrite | | | | | | | | | | |
| | | 332 - 335 - 1 ft. recovered includes 1 inch massive, dense pyrite, 5 ins. leached breccia and 6 ins. dark gray, carbonaceous material with dissem. py. | Core | | 1553 | 330.3 | 340 | 9.7 | | | | |
| | | 335 - 337 - 3 ins. recovered is mostly massive pyrite. Some showing radiating structure. | Sludge | | 1448 | 336 | 346 | | | | | |
| | | 337 - 340 - 1.7 ft. recovered is massive pyrite. Some radiating structure. | Sludge | | 1449 | 346 | 356 | 10 | | | | |
| | | 340 - 346 - No core recovered | Sludge | | 1450 | 356 | 366 | 10 | | | | |
| | | 346 - 350 - 1 inch of vuggy pyrite | Sludge | | 1451 | 366 | 376 | 10 | | | | |
| | | 350 - 352 - No core recovered | Sludge | | 1452 | 376 | 390 | 14 | | | | |
| | | 352 - 354 - 2 ins. gray clay - Fault Gouge ? | Sludge | | 1453 | 390 | 395 | 5 | | | | |
| | | 354 - 356 - No core recovered | | | | | | | | | | |

| | | | |
|------------|------------|-------------|----------------|
| Au | Zn. | Cu. | Sulphur |
| oz. | ppm | ppm. | % |

| | | | |
|------------|-----------|-----------|--|
| Nil | 39 | 30 | |
|------------|-----------|-----------|--|

| | | | |
|------------|------------|------------|--|
| Nil | 518 | 535 | |
|------------|------------|------------|--|

| | | | |
|------------|------------|-----------|--|
| Nil | 122 | 98 | |
|------------|------------|-----------|--|

| | | | |
|------------|-----------|-----------|--|
| Nil | 82 | 42 | |
|------------|-----------|-----------|--|

| | | | |
|------------|-----------|-----------|--|
| Nil | 98 | 60 | |
|------------|-----------|-----------|--|

| | | | |
|------------|------------|------------|--|
| Nil | 196 | 134 | |
|------------|------------|------------|--|

| | | | |
|------------|------------|-----------|--|
| Nil | 122 | 88 | |
|------------|------------|-----------|--|

Property Midlothian

THE HANNA MINING COMPANY

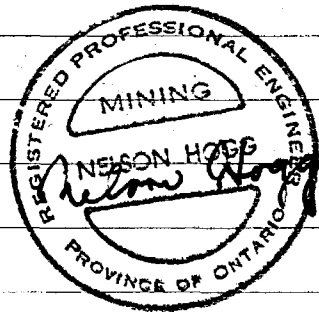
Sheet 12 of 12

Logged by: N. Hogg Location Claim 333624 Bearing: _____ Depth _____ Drill Hole No.: 74-4

Date: _____ N.: _____ Inclination: _____ Started: April 19, 1974

Drilled by: Continental E.: _____ Elevation: _____ Completed: April 23, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | |
|---------|----|---|--|-------|---------|------|-----|-------------|--------|----|----|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | |
| | | | 356 - 360 - 1 inch gray clay - Fault Gauge ? | | | | | | | | |
| | | 360 - 366 - No core recovered | | | | | | | | | |
| | | 366 - 371 - 2 inches of core - chips of massive pyrite | | | | | | | | | |
| | | 371 - 374 - 9 inches recovered is massive pyrite with vuggy texture. | | | | | | | | | |
| | | 374 - 376 - 2 inches of massive pyrite. | | | | | | | | | |
| | | 376 - 377 - 2 inches of massive pyrite. | | | | | | | | | |
| | | 377 - 378 - 3 inches massive pyrite with stringers of black carbon. | | | | | | | | | |
| | | 378 - 382 - 2.4 foot recovered is massive pyrite with 1/2" seam of black hard carbonaceous material | | | | | | | | | |
| | | 382 - 394 - No core recovered | Core | | 1554 | 371 | 382 | 11 | .005 | 58 | 38 |
| | | 394 - 395 - 3 ins. recovered - Massive Py with 1/2" seam of carbon | | | | | | | | | |
| 395 | | END OF HOLE - ABANDONED. CORE RECOVERY 73.3 | | | | | | | | | |



THE HANNA MINING COMPANY

PROPERTY: Midlothian

Claim 333624

Re: Drill Holes M-74-4 & M-74-5

RESULTS OF SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSES BY CORRELATION LABORATORIES

DDH - M-74-4

| Footage | | Sample No. | Arsenic | Boron | Cobalt | Copper | Lead | Iron | Manganese | Molybdenum | Nickel | Titanium | Vanadium | Zinc | Zirconium |
|---------|-------|------------|---------|-------|--------|--------|------|------|-----------|------------|--------|----------|----------|------|-----------|
| From | To | | | | | | | | | | | | | | |
| 145.2 | 150.5 | 1546 | | 2 | | 1 | | 10 | 6 | 1 | 1 | 5 | | | 1 |
| 180.0 | 195.0 | 1548 | | 2 | | 1 | | 10 | 6 | 1 | 1 | 6 | 3 | | 1 |
| 204.2 | 244.5 | 1549 | 2 | 2 | 1 | 1 | 1 | 11 | 5 | 1 | 2 | 4 | 3 | | 1 |
| 202.0 | 267.6 | 1550 | 2 | 1 | 1 | 1 | 1 | 11 | 5 | 1 | 2 | 3 | | | 1 |
| 371.0 | 382.0 | 1554 | 3 | | 2 | 1 | 2 | 12 | 3 | 1 | 3 | 1 | | 2 | |

DDH -M-74-5

| | | | | | | | | | | | | | | | |
|-------|-------|------|---|--|---|---|---|----|---|---|---|---|--|---|--|
| 144.0 | 146.0 | 1555 | 3 | | 2 | 1 | 2 | 12 | 3 | 1 | 3 | 1 | | 2 | |
|-------|-------|------|---|--|---|---|---|----|---|---|---|---|--|---|--|

CODE: 1. Tr. - Less than .01% 7. .2 - 1%
 2. .005 - .03% 8. .5 - 3%
 3. .01 - .05% 9. 1 - 5%
 4. .02 - .1% 10. 2 - 10%
 5. .05 - .3% 11. 5 - 30%
 6. .1 - .5% 12. More than 10%

Property Midlothian

THE HANNA MINING COMPANY

Sheet 3 of 8

Logged by: N. Hogg Location Claim 333619 Bearing: _____ Depth _____ Drill Hole No.: 74-5

Date: _____ N.: _____ Inclination: _____ Started: April 25, 1974

Drilled by: Continental E.: _____ Elevation: _____ Completed: April 30, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | |
|---------|----|--|---------------------------------------|-------|---------|------|-----|-------------|--------|----|------------------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | |
| | | Core recovered is mostly massive pyrite with irregular stringers and masses of black carbon-coloured material. | | | | | | | | | |
| | | 124.5 - 131 - 0.7 feet recovered is massive py with oxidation on slips, accompanied by a fibrous hard white mineral. | | | | | | | | | |
| | | 131-136 - No Core Recovered - Sandy material with grains of pyrite and felsite recovered. | | | | | | | | | |
| | | 136-144 - 0.5 feet of core - Massive pyrite with black carbon-coloured hard material - small piece of porous white breccia. | | | | | | | | | |
| | | 144-146 - 1.5' recovered is massive Py, with ragged fragments of gray felsite and black carbonaceous material. This section was recovered twice because rods followed a different course when re-inserted. | Sludge | | 1457 | 130 | 140 | 10 | Nil | 79 | 350 |
| | | | " | | 1458 | 140 | 150 | 10 | Nil | 68 | 406 |
| | | | " | | 1459 | 144 | 147 | 3' | Nil | 66 | 150 - Re-drilled |
| | | 146-147 - 0.7' Massive Py with gray quartz and some stringers of black material. | | | 1555 | | | | | | |
| | | | | | Core | 144 | 146 | 2.0 | Nil | 50 | 330 |
| | | 147-150 - 0.5 ft of chips - Mostly massive Py - one of porous white rhyolite and one of porous black material. | | | | | | | | | |
| | | 150-151 - 2 ins. of small chips - 2 of white porous rhyolite and 10 of pyrite. | | | | | | | | | |
| | | 151-152 - 0.9 feet recovered 40% Py in massive stringers in some breccia. | | | | | | | | | |

NOTE - WATER LOST ABOUT 145'

| | | |
|-----|-----|-----|
| Au | Cu | Zn |
| PPM | PPM | PPM |

Note: 2 intersections from 144-146

Property Midlothian

THE HANNA MINING COMPANY

Sheet 4 of 8

Logged by: N. Hogg Location Claim 333619 Bearing: _____ Depth _____ Drill Hole No.: 74-5

Date: _____ N.: _____ Inclination: _____ Started: _____

Drilled by: Continental E.: _____ Elevation: _____ Completed: _____

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | |
|---------|----|--|---------------------------------------|-------|---------|------|-----|-------------|--------|--------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | Au oz. | Cu PPM | Zn PPM |
| | | | | | | | | | | | |
| | | 152-153 - 0.9 feet recovered same as above | | | | | | | | | |
| | | 153-154 - 0.4 feet recovered 50% Py, 50% gray Rhyolite in small chips | | | | | | | | | |
| | | 154-155 - No core | | | | | | | | | |
| | | 155 -156 - 1 in - 70% Pyrite | | | | | | | | | |
| | | 156-157 - 0.7 feet porous pyrite with little rock, in chips of 1/2" - 1 in. | | | | | | | | | |
| | | 157 - Rods pulled and started new hole at 132. Stopped for cementing. | | | | | | | | | |
| | | 95-131 - Drilled out cement | | | | | | | | | |
| | | 131-136 - clay, sand and gravel | | | | | | | | | |
| | | 136-146 - cored new hole, 1-4' core recovered. Rhyolite breccia with massive pyrite stringers, to 1" with quartz. | | | | | | | | | |
| | | 146-149 - 2.0' core recovered (66%) - near massive pyrite, very fine to fine-grained approx. 80% - only white to black quartz remains with the pyrite foliated at 147. | 147 | 55° | 1556 | 146 | 156 | 10' | Nil | 58 | 25 |
| | | 149-156 - 4" core - near massive pyrite as above. | | | | | | | | | |
| | | 156-157 - 5" core (41%) recovered. Fragments of near massive pyrite as above. | | | 1557 | 156 | 162 | 6' | Nil | 60 | 38 |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 5 of 8Logged by:- B. L. Hodgins Location Claim 333619 Bearing:- _____ Depth _____ Drill Hole No.:- 74-5Date:- _____ N.- _____ Inclination:- _____ Started: April 25, 1974Drilled by:- Continental E.- _____ Elevation:- _____ Completed:- April 30, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | | | |
|---------|-------|---|---------------------------------------|-------|---------|-------|-------|-------------|-----------------|-----------------|-----------------|--|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | | | |
| | | 157-159 - 35% core recovery - massive pyrite with minor leached areas that have quartz veinlets remaining and oxidized iron staining - apparent removal of carbonates. | | | | | | | | | | | | |
| | | 159-162 - 73% core recovery. Massive pyrite as above to 95%, with cherty fragments? - leached and oxidized as above. | | | | | | | | | | | | |
| 124.5 | 169.2 | 162-163 - 50% core recovery - massive pyrite fragments as above. | | | 1558 | 162 | 165.5 | 3.5 | Au oz Nil | Cu ppm 89 | Zn ppm 70 | | | |
| | | 163 - 164 - 80% core recovery - massive pyrite as above. | | | | | | | | | | | | |
| | | 164-165.5 - 93% core recovery - massive pyrite as above. | | | | | | | | | | | | |
| | | 165.5 - 166.5 - 90% core recovery - massive pyrite as above. | | | 1559 | 165.5 | 169.2 | 3.7 | Nil | 50 | 72 | | | |
| | | 166.5-168 - 66% core recovery near massive pyrite to 30% with fine-grained black interstitial material - bottom half of recovered section consisted of fragments to 1/2 inch composed of massive pyrite and zhyolite. | | | | | | | | | | | | |
| | | 168- 169 - 100% core recovery - fine-grained gray to black bedded (?) siliceous rock, slightly carbonaceous? - with blebs of massive pyrite to 1/2" and massive pyrite bands that are in part weakly oxidized as above - Continues to | | | | | | | | | | | | |
| | | 169.2 - total pyrite 50% relatively sharp contact - slightly irregular. | 65 | | 1560 | 169.2 | 173.1 | 3.9 | Nil | 22 | 80 | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 8 of 8

Logged by:- B. L. Hodgins Location Claim 333619 Bearing:- _____ Depth _____ Drill Hole No.:- 74-5

Date:- _____ N.:- _____ Inclination:- _____ Started: April 25, 1974

Drilled by:- Continental E.:- _____ Elevation:- _____ Completed:- April 30, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays | | | | |
|---------|-----|--|---------------------------------------|-------|---------|------|----|-------------|--------|--|--|--|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | | | | | |
| 173.1 | 200 | 185.8 -200 - Coarse gray breccia- fragments to 2" - 60-70% of core. Subrounded to rounded - many frags are well rounded - fragments vary from light gray to dark gray with occasional medium textured pyrite fragments. 185.6-186.0 - to 5% pyrite as massive frags and bands (veins?) Fragments locally broken-up by cross fractures with quartz carbonate fillings to 1/2" - matrix light gray very fine to fine grained quartz feldspar rock locally made up of fine fragments. | | | | | | | | | | | |
| 200 | | END OF HOLE CORE RECOVERY - 80% CORE RECOVERY IN SULPHIDE ZONE -34.6% | | | | | | | | | | | |



THE HANNA MINING COMPANY

PROPERTY: Midlothian Claim 333619

Re: Drill Holes M-74-4 & M-74-5

RESULTS OF SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSES BY CORRELATION LABORATORIES

DDH - M-74-4

| Footage | | Sample No. | Arsenic | Boron | Cobalt | Copper | Lead | Iron | Manganese | Molybdenum | Nickel | Titanium | Vanadium | Zinc | Zirconium |
|---------|-------|------------|---------|-------|--------|--------|------|------|-----------|------------|--------|----------|----------|------|-----------|
| From | To | | | | | | | | | | | | | | |
| 145.2 | 150.5 | 1546 | | 2 | | 1 | | 10 | 6 | 1 | 1 | 5 | | | 1 |
| 183.0 | 195.0 | 1548 | | 2 | | 1 | | 10 | 6 | 1 | 1 | 6 | 3 | | 1 |
| 234.2 | 244.5 | 1549 | 2 | 2 | 1 | 1 | 1 | 11 | 5 | 1 | 2 | 4 | 3 | | 1 |
| 262.0 | 267.6 | 1550 | 2 | 1 | 1 | 1 | 1 | 11 | 5 | 1 | 2 | 3 | | | 1 |
| 371.0 | 382.0 | 1554 | 3 | | 2 | 1 | 2 | 12 | 3 | 1 | 3 | 1 | | 2 | |

DDH -M-74-5

| | | | | | | | | | | | | | | | |
|-------|-------|------|---|--|---|---|---|----|---|---|---|---|--|---|--|
| 144.0 | 146.0 | 1555 | 3 | | 2 | 1 | 2 | 12 | 3 | 1 | 3 | 1 | | 2 | |
|-------|-------|------|---|--|---|---|---|----|---|---|---|---|--|---|--|

CODE: L.Tr. -Less than .01%

| | | | |
|----|-------------|-----|---------------|
| 2. | .005 - .03% | 7. | .2 - 1% |
| 3. | .01 - .05% | 8. | .5 - 3% |
| 4. | .02 - .1% | 9. | 1 - 5% |
| 5. | .05 - .3% | 10. | 2 - 10% |
| 6. | .1 - .5% | 11. | 5 - 30% |
| | | 12. | More than 10% |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 2 of 9Logged by: J. Lake Location Claim 373064 Bearing: _____ Depth _____ Drill Hole No.: M-74-6Date: _____ N. _____ Inclination: _____ Started: May 2, 1974Drilled by: Continental E. _____ Elevation: _____ Completed: May 5, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO COPE | | Samples | | | Assays | |
|---------|----|---|---------------------------------------|-------|---------|------|----|-------------|--|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | 39.5' - 45'. The rock is more siliceous than above unit. The rock is also lighter in colour, taking on a green rather than a gray colour. No sulphides noted. | | | | | | | |
| | | 45 - 75. Andesite. Massive gray-blue rock feldspathic with minor black hornblende. The rock is fine-grained in contrast to preceding units. Little alteration is noted. No bedding or layering features are noted. Between 49'-51' the rock is coarse grained with abundant (20%) anhedral white feldspar phenocrysts to 2 mm. | | | | | | | |
| | | 75 - 75.5 - Porphyritic andesite. Feldspathic gray-green rock with 20% anhedral white feldspar phenocrysts to 2 mm. The rock is fine-grained and is not exceptionally hard. A very distinct knife-edge contact exists at 75', whereas that at 75.5 is gradational. The rock is not highly altered. At 75.5 the rock is composed of a 1.5" carbonate vein with core angle 25°. No sulphides are noted. | 75' | 45° | | | | | |
| | | 75.5 - 85' - Andesite flow. Fine grained massive gray-blue rock. The rock is composed predominantly of feldspar. The rock is not hard but is brittle, showing little alteration. | | | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 3 of 9Logged by:- J. Lake Location Claim 373064 Bearing:- _____ Depth _____ Drill Hole No.:- M-74-6Date:- _____ N.:- _____ Inclination:- _____ Started: May 2, 1974Drilled by:- Continental E.:- _____ Elevation:- _____ Completed:- May 5, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays |
|---------|-------|--|---------------------------------------|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | There is no evidence of grain gradation with a uniform grain size being present. Few calcite veinlets to 1/16" cut the core at 55° (83'). Few pyrite cubes to 1 mm. were found in this section. | | | | | | | |
| 85 | 95 | Intermediate volcanic tuff. Very fine grained, finely laminated tuff. The rock is a light brown-green colour. It is hard and brittle and shows subtle variations in colour in the various fine laminations. The rock is composed predominantly of green feldspar. The laminations show no evidence of distortion. No evidence of grain gradation is noted. The rock is not altered to any degree. The contacts are not distinct, but are irregular in outline. No sulphides are noted. The hornblende of the previous units are not noted here. However, traces of chlorite are found. | 87 | 35° | | | | | |
| | | | 89 | 20° | | | | | |
| | | | 92 | 25° | | | | | |
| | | | 94 | 25° | | | | | |
| 95 | 220.5 | Intermediate Lava - Dacite? Feldspathic gray fine-grained massive rock. The rock shows no structure, but subtle changes in grain size and colour can be noted. The rock is not hard but is brittle. Very | | | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 4 of 9

Logged by: J. Lake Location Claim 373064 Bearing: _____ Depth _____ Drill Hole No.: H-74-6

Date: May 3/74 N. _____ Inclination: _____ Started: May 2, 1974

Drilled by: Continental E. _____ Elevation: _____ Completed: May 5, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays |
|---------|----|---|---------------------------------------|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | <p>few carbonate veinlets are found in the rock. No sulphides are noted.</p> <p>119 - 220.5 - Becomes gradually coarser in texture. The rock is composed of dark green chlorite, abundant calcite which effervesces quite vigorously, and minor plagioclase. No magnetite is noted.</p> <p>Leucoxene occurs in coarse-textured portion. The rock is medium-grained and has a uniform texture. No variation in grain size is noted. The rock has a distinctively igneous character. The rock is dark gray in colour. It is soft and is scratched with the knife blade. The contact at 119' shows 6 cm. of rounded brecciated material.</p> <p>From 119' - 133' the rock is green-gray in colour and has been oxidized. Core recovery was poor in this area.</p> <p>Sulphides are limited to a few specks of pyrite. At 188' there is a subtle change in grain size which is interpreted as a contact. Few calcite veinlets (<1% to 1/8" cut the rock in regular fashion (60° at 177'). The grain size increases considerably beyond 180' and is coarse grained.</p> | | | | | | | |
| | | | 188 | 67° | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 5 of 9

Logged by:- J. Lake Location Claim 373064 Bearing:- _____ Depth _____ Drill Hole No.:- M-74-6

Date:- _____ N.- _____ Inclination:- _____ Started: May 2, 1974

Drilled by:- Continental E.- _____ Elevation:- _____ Completed:- May 5, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays |
|---------|-----|--|---------------------------------------|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | The rock contains less carbonate than rock at the beginning of the sequence. The rock is not altered, contains amphiboles to 1 mm (10%) and contains more plagioclase than rock at the beginning of the sequence. The individual crystals are euhedral and the overall rock shows a diabasic texture. | | | | | | | |
| 220.5 | 388 | <p>Basaltic Tuff and Breccia. The rock contains predominantly feldspar with minor amounts of silica. Chlorite is present in certain zones such as 227' - 229'. The rock is fine-grained and gray in colour. No carbonates are noted.</p> <p>Breccia fragments are not stratified. Bedding occurs to 235 ft. and beyond 235' is breccia. The fragments are angular to sub rounded and are composed of white feldspathic material. The rock contains less than 10% fragments to one centimeter, with the average being one millimeter. The rock is hard and brittle. The section between 220.5 and 224 is highly siliceous. Fine-grained material which is uniformly gray in colour. The contact is quite distinct at 220.5 and can be measured approx. (the core angle) . The contact</p> | | | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 6 of 9Logged by:- J. Lake Location Claim 373064 Bearing:- _____ Depth _____ Drill Hole No.:- M-74-6Date:- _____ N.:- _____ Inclination:- _____ Started: May 2, 1974Drilled by:- Continental E.:- _____ Elevation:- _____ Completed:- May 6, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays |
|---------|----|--|--|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | is slightly irregular in outline. No sulphides are noted in this rock. At 266, an irregular contact is noted between two units. | 220 | 540° | | | | | |
| | | 273' - 296'. The nature of the breccia changes in this area. The rock is still gray, siliceous and feldspathic as above. Chlorite content is reduced. However the fragments are gray in colour, are angular in outline and compose 60% of the rock to 0.5 cm. The matrix is lighter gray in colour than the fragments. No bedding features are noted. Euhedral pyrite cubes to 2 mm. are found at 277'. | 266 | 27° | | | | | |
| | | 296'- 388' - Intermediate volcanic tuff breccia. Rock is similar to above unit but is intermediate in character. The rock is composed predominately of feldspar. Chlorite is present in minor amounts. Calcite is not present. The rock is softer than the above unit and is scratched by the knife. No bedding features are noted. The rock is fine-grained and gray in colour. Breccia is composed of fine-grained sub-rounded to 1/8" composing 30% of the rock. The fragments are darker gray than the matrix. No sulphides are noted. | 296 | 30° | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 7 of 9Logged by:- J. Lake Location Claim 373064 Bearing:- _____ Depth _____ Drill Hole No.:- M-74-6Date:- _____ N.:- _____ Inclination:- _____ Started: May 2, 1974Drilled by:- Continental E.:- _____ Elevation:- _____ Completed:- May 5, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays |
|---------|-----|---|--|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | Calcite veinlets are found in very minor amounts to 1/8" in width and follow no set pattern. The contact with the preceding unit is very sharp. No change in grain size is noted between the two units. Poor core recovery was noted between 323 - 328 and 338 - 346, 356-362, 369-376. | | | | | | | |
| | | At 310' bedding cuts core at 20°. From 386 - 388 the rock is bleach white in colour and is soft. | 310 | 30° | | | | | |
| 388 | 446 | Gabbro? The rock contains abundant green epidote, black ferromagnesian minerals and some muscovite mica. No carbonates or magnetite are noted. The rock is medium grained and is dark gray-green in colour. The contact with the preceding rock was not preserved in the core, but it has inclusions of dacitic volcanic. The epidote and ferromagnesians stand out as small anhedral phenocrysts. The rock is not hard but is brittle. No carbonate veinlets are noted to cut the rock. No gradation in grain size is noted. | | | | | | | |
| | | 398 - 400 - Leached, white, altered by surface weathering. | | | | | | | |
| | | 400 - 411 - Inclusion of dacitic bx. Similar to unit found between 296 - 388. Feldspathic rock containing minor amounts | | | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 8 of 9Logged by:- J. Lake Location Claim 373064 Bearing:- _____ Depth _____ Drill Hole No.:- M-74-6Date:- _____ N.:- _____ Inclination:- _____ Started: May 2, 1974Drilled by:- Continental E.:- _____ Elevation:- _____ Completed:- May 5, 1974

| Footage | | Description | ANGLE OF BEDDING OR FOLIATION TO CORE | | Samples | | | | Assays |
|---------|-----|---|--|-------|---------|------|----|-------------|--------|
| From | To | | FOOTAGE | ANGLE | No. | From | To | Core Length | |
| | | of chlorite and no carbonate. The rock is fine-grained and dark gray in colour. It is soft but brittle. The fragments are subrounded and 1/2 cm composing 30% of the rock. The section between 397 - 400 is bleach white, soft and chalky in appearance. Sulphides in the form of euhedral pyrite cubes are found in a 2 cm. band at 411'. Altered rock. Rock is composed of epidote (dark green), black ferromagnesian minerals, and abundant muscovite mica. No carbonates or magnetite are noted. The rock is uniformly medium grained and is dark green in colour. The rock has the appearance of a lamprophyre. 413' - 446' - The rock is badly weathered, soft and showed very poor core recovery. The contact at 411 is not distinct, but is marked by a one-foot section. From 411- 412 in which the grain size becomes progressively less, no sulphides are noted. | | | | | | | |
| 446 | 487 | Zone of Sulphide Mineralization. 446 - 456 - Poor core recovery. Only a few chips of core were recovered. The rock is a breccia composed of 40% angular | | | | | | | |

Property Midlothian

THE HANNA MINING COMPANY

Sheet 9 of 9

Logged by: J. Lake Location Claim 573064 Bearings: _____ Depth _____ Drill Hole No.: H-74-6

Date: _____ N.: _____ Inclination: _____ Started: May 2, 1974

Drilled by: Continental E.: _____ Elevation: _____ Completed: May 5, 1974

| Footage From To | Description | ANGLE OF BEDDING OR ELEVATION TO CORE | | Samples | | | Assays | | | |
|--------------------|---|--|---------|-----------------|------|-----|-------------|-----------|-----------|-----------|
| | | FOOTAGE | ANGLE | No. | From | To | Core Length | Au OZ. | Cu PPM | Zn PPM |
| | white quartz fragments to 1/2 cm. in a black feldspathic matrix. No carbonates are noted. | | | 1561 | 446 | 456 | 10' | Nil | | |
| | 456' - 487' - Sulphide Zone. Massive Pyrite. Rock contains 80% pyrite in section 456' - 473'. Rocks at 483-487 shows very fine grained, finely laminated, gray chert bands along with the pyrite. The massive pyrite cuts across the laminations. Very poor core recovery in the sulphide zone. | | | 1562 | 456 | 469 | 13' | .005 | 90 | 58 |
| | | | | 1563 | 469 | 487 | 18' | .01 | 88 | 40 |
| | | | | Sludge Samples: | | | | | | |
| 487 | END : OF HOLE | | 487 55° | 1564 | 452 | 462 | 10' | Nil | 223 | 230 |
| | CORE RECOVERY - 78.1 | | | 1565 | 462 | 472 | 10' | .005 | 262 | 232 |
| | | | | 1566 | 472 | 482 | 10' | .005 | 290 | 242 |
| | | | | 1567 | 482 | 487 | 5' | .005 | 290 | 305 |
| | | | | 1568 | 442 | 452 | 10' | Nil | 188 | 120 |

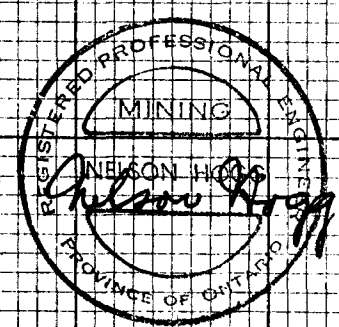
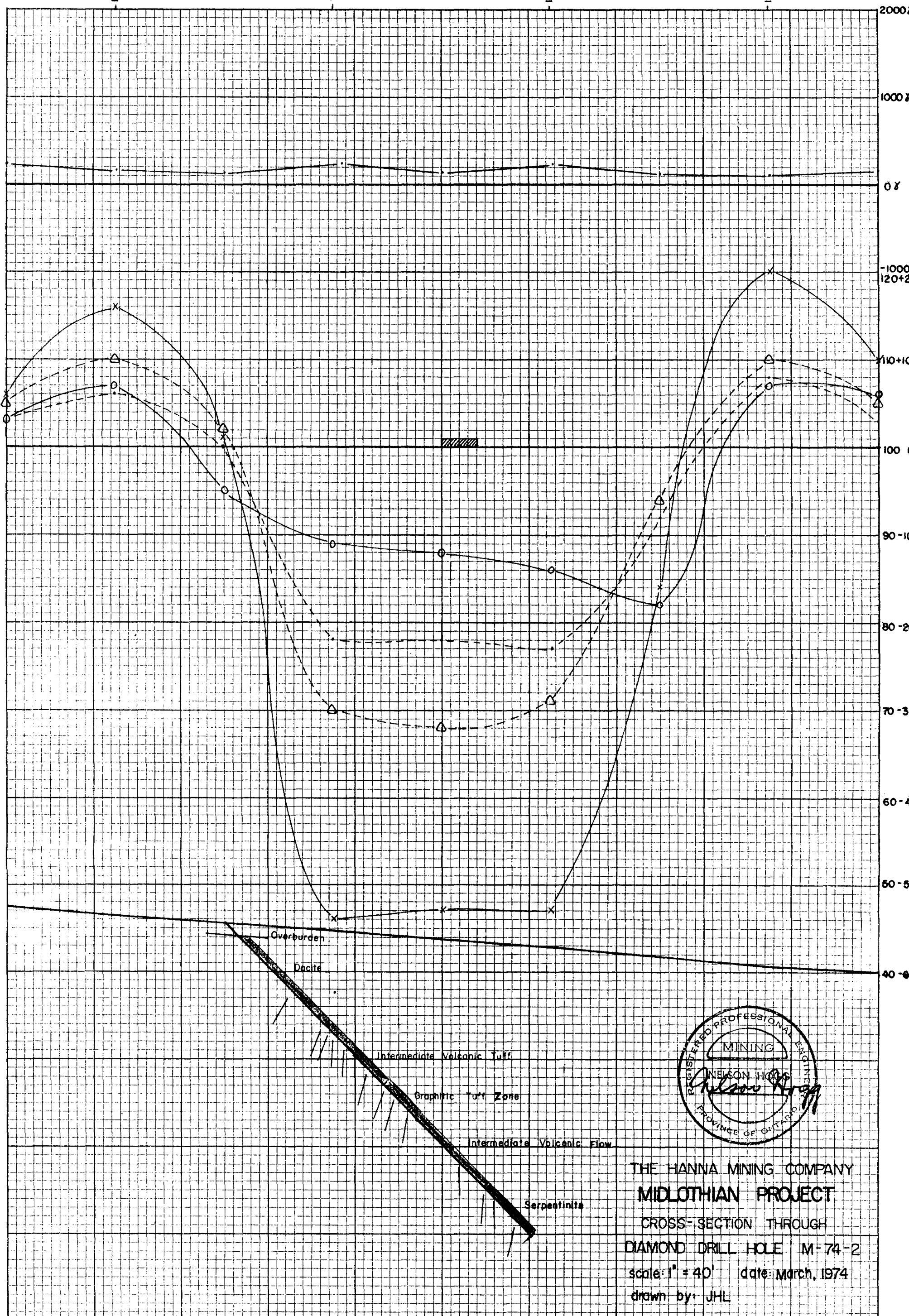


1621 S

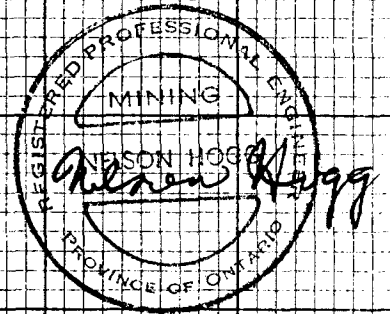
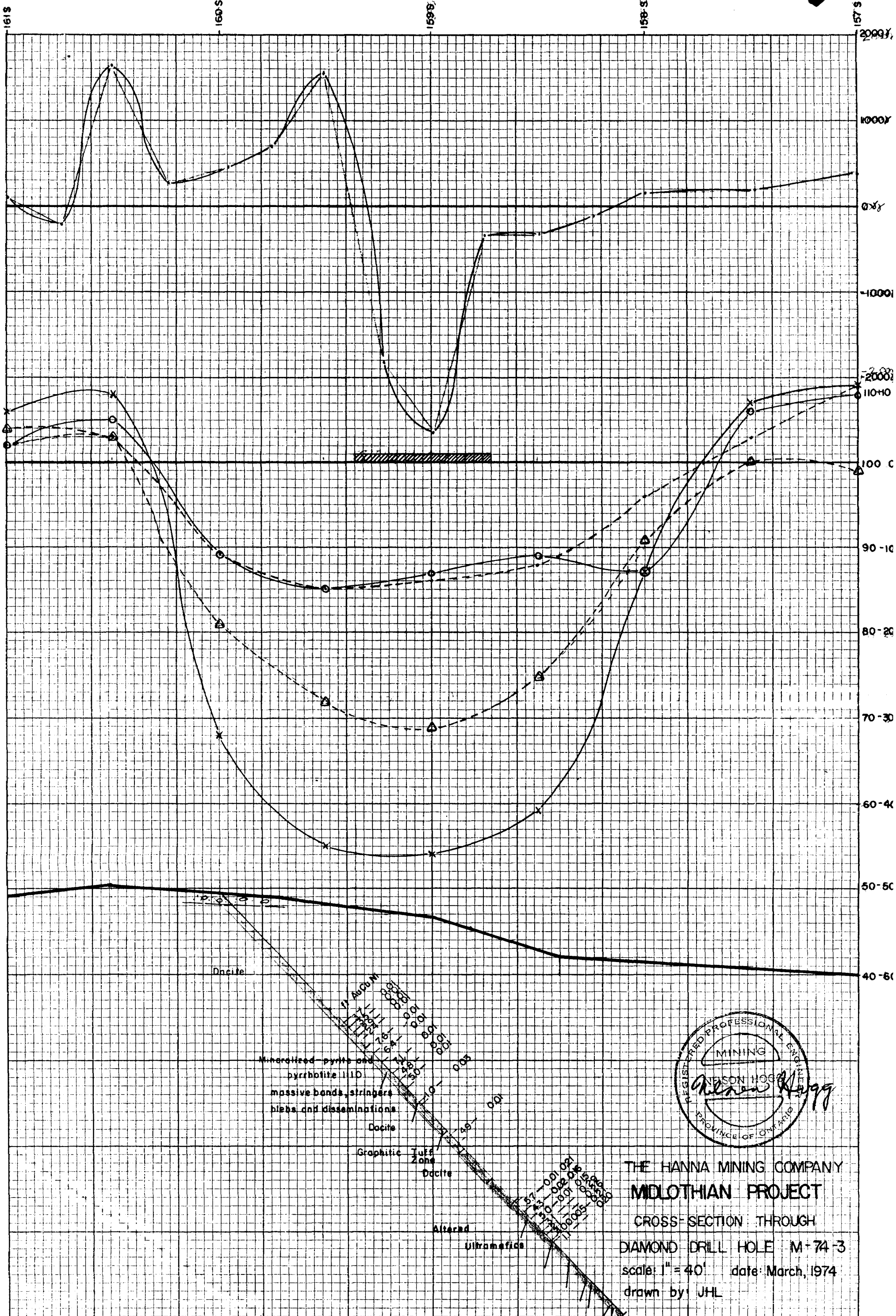
1611 S

1601 S

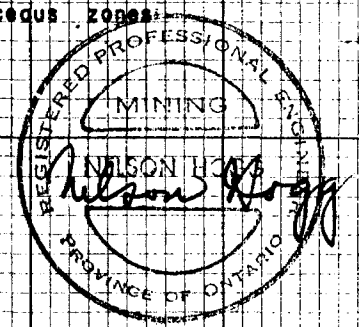
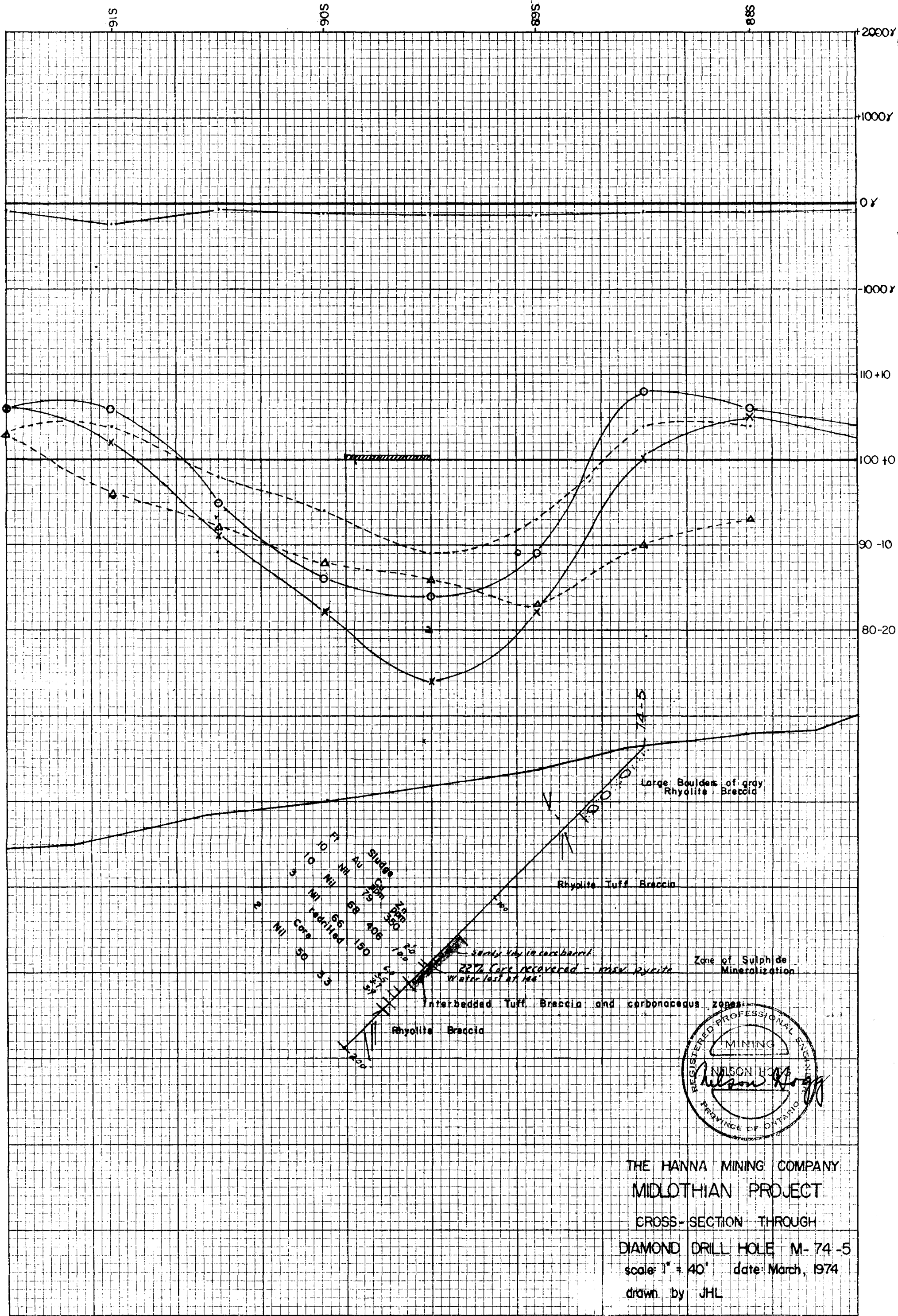
1591 S



THE HANNA MINING COMPANY
MIDLOTHIAN PROJECT
CROSS-SECTION THROUGH
DIAMOND DRILL HOLE M-74-2
scale: 1" = 40' date: March, 1974
drawn by: JHL



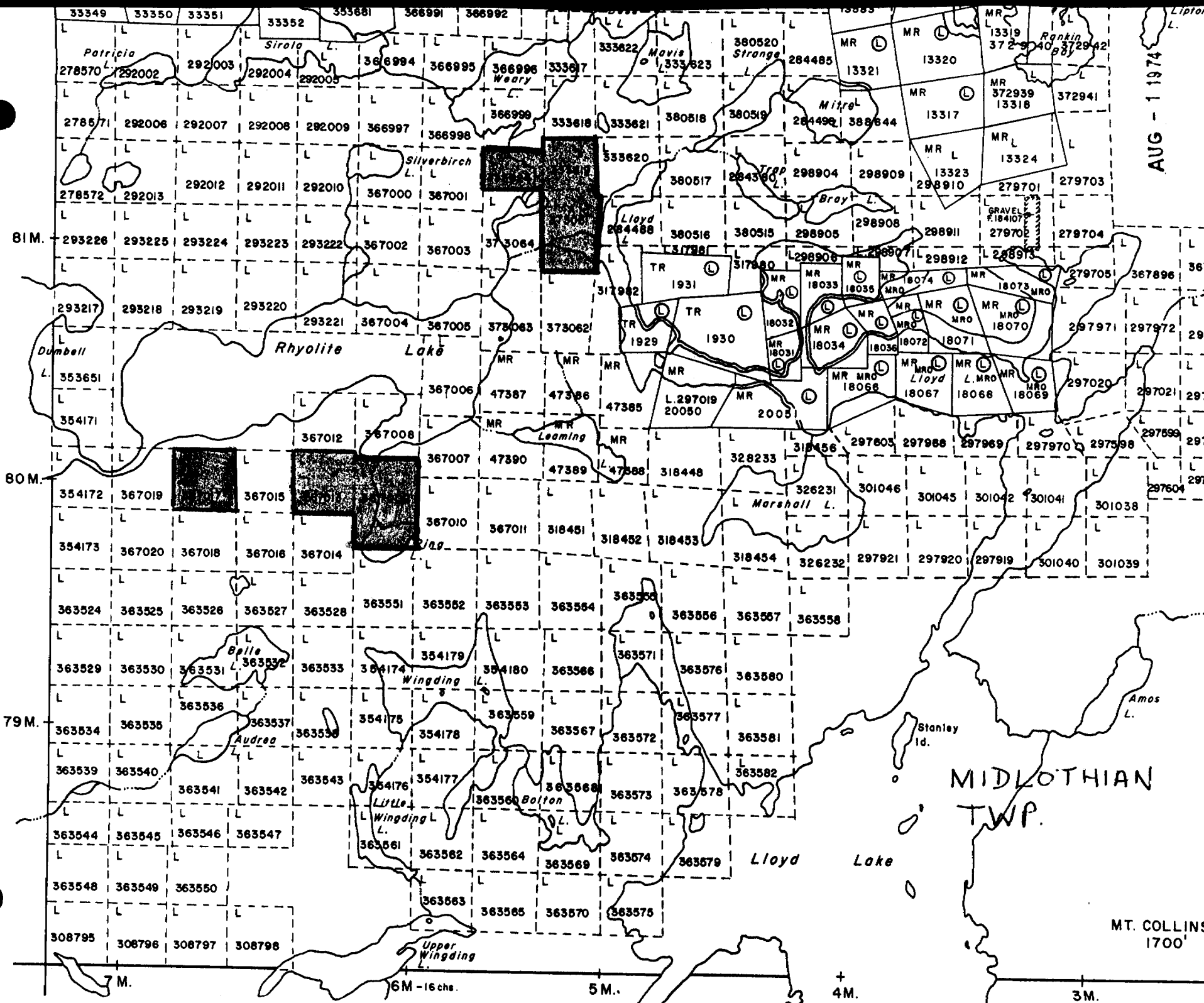
THE HANNA MINING COMPANY
MIDLOTHIAN PROJECT
 CROSS-SECTION THROUGH
 DIAMOND DRILL HOLE M-74-3
 scale: 1" = 40' date: March, 1974
 drawn by: JHL



THE HANNA MINING COMPANY
 MIDLOTHIAN PROJECT
 CROSS-SECTION THROUGH
 DIAMOND DRILL HOLE M-74-5
 scale: 1" = 40' date: March, 1974
 drawn by JHL

HALLIDAY TWP. (M. 910)

AUG - 1 1974



MT. COLLINS 1700'

Rhyolite

Lake.

Base Line 150+00S.

L-367017

L 367018

L-367019

L-367015

280'

-45°

M-74-1

Line 56W

Line 52W

Line 48W

| | |
|--------------------------|--------------------|
| THE HANNA MINING COMPANY | |
| MIDLOTHIAN PROJECT. | |
| PLAN | |
| DDH - M-74-1 | |
| Scale: 1 in. = 200' | Date: June 1, '74 |
| Work by: <i>M.A.</i> | Revised |
| Drawn by: | N.T.S. Sheet 42P15 |

Rhyolite Lake.

367008

Base Line 150+00 S.

367013

367009

367015

200'

274'

200'

M-74-2
-45°

M-74-3
-45°

360'

367014

| | |
|--|----------------|
| THE HANNA MINING COMPANY | |
| MIDLOTHIAN PROJECT | |
| PLAN | |
| D.D.H's M-74-2, M-74-3 | |
| Scale: 1 in = 200 ft. Date: June 1, 1974 | |
| Drawn by: <i>MS</i> | Revised: |
| N.T.S. Sheet 42 P 15 | |

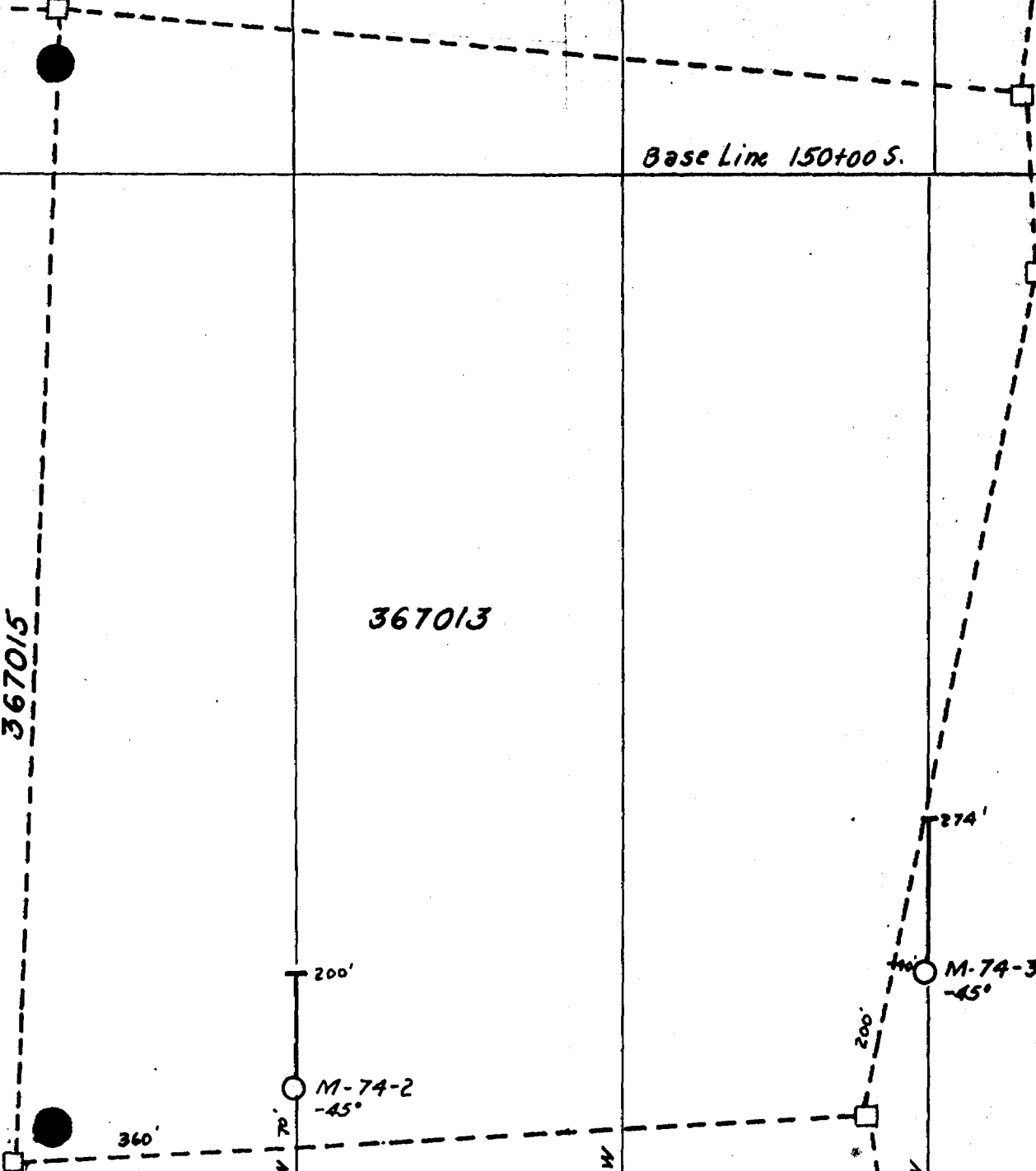
Line 28 W.

Line 24 W

Line 20 W

Line 16 W

Line 12 W



333624

333619

M-74-5
-45'

BASE LINE 150400 South.

M-74-4
-45'

310'

860'

360'

315'
200'

395'

487'

Creek.

Weary

325'

M-74-6
-50'

373064

373061

L 20E

L 24E

L 28E

L 32E

Lloyd Lake.

| | |
|--------------------------|--------------------|
| THE HANNA MINING COMPANY | |
| MIDLOTHIAN PROJECT. | |
| PLAN | |
| DDH's M-74-4, 5 & 6 | |
| Scale: 1 in. = 200 ft. | Date: June 1, 1974 |
| Work by: | Revised |
| Drawn by: <i>WJ</i> | N.T.S. Sheet 42P15 |

REPORT ON ASSAY RESULTS

The Hanna Mining Company holds 124 claims in Midlothian Township. During 1973 a program of exploration work, including geological and geophysical surveys, was completed. The results of this work have been submitted to the Ontario Government and are now on file in the Assessment Library.

During 1974 six diamond drill holes, totalling 1,776 feet, were drilled to test geophysical anomalies. The work was done under an Ontario Government Prospector's Assistance Agreement. All results will be turned in to the Government and will subsequently be submitted to the Mining Recorder in support of assessment requirements.

A summary of drill hole data, the samples taken and results is included with this report, as Appendix A and Appendix B. Detailed drill logs are being submitted with the Report of Work covering diamond drilling.

Drilling tested two zones of conductivity. Disseminated and massive pyrite and pyrrhotite accompanied by carbonaceous tuff explained the conductive zones. No base metal or precious metal values were obtained. Six samples were tested by semi-quantitative spectroscopy to check for unusual elements, but nothing of special interest was found.

In places where core recovery was poor in the zone of sulphide mineralization, sludge samples were taken. These are higher in copper and zinc values than the split core because there is a concentrating effect in the collection of the sludge samples. They were collected in a shallow bucket in which only the heavy material was retained.

For details about the geology, geophysics and drilling, refer to the reports and maps on file in the Ontario Department of Mines Assessment Library. Assay results are listed with the drill logs opposite the geological description.

.....
Nelson Hogg
.....

.....
June 1, 1974
.....
date

APPENDIX "A"

THE HANNA MINING COMPANY

MIDLOTHIAN PROJECT

SUMMARY OF DIAMOND DRILLING

| <u>LOCATION</u> | | | | | | | |
|-----------------|------------------|--------------------|----------------|----------------|--------------------|-------------------|--------------------|
| <u>Hole No.</u> | <u>Claim No.</u> | <u>Picket Line</u> | <u>Station</u> | <u>Bearing</u> | <u>Inclination</u> | <u>Overburden</u> | <u>Total Depth</u> |
| 74-1 | 367017 | 56+00W | 162+50S | North | -45° | 37 | 220 |
| 74-2 | 367018 | 24+00W | 161+50S | North | -45° | 8 | 200 |
| 74-3 | 367009 | 16+00W | 160+00S | North | -46° | 10 | 274 |
| 74-4 | 333624 | 20+00E | 91+20S | South | -45° | 10 | 395 |
| 74-5 | 333619 | 32+00E | 88+50S | South | -46° | 44 | 200 |
| 74-6 | 373064 | 20+00E | 97+50S | North | -50° | 16 | 487 |
| Total | | | | | | 125' | 1776' |

APPENDIX "B"

THE HANNA MINING COMPANY

MIDLOTHIAN PROJECT

SUMMARY OF ASSAYS

| Hole No. | Sample No. | Type of Sample | Footage | | Ft. | Assay | | | | | Cost |
|----------|------------|----------------|---------|-------|-----|--------------|---------|---------|---------|--------|-------|
| | | | From | To | | Au oz/ton | Cu % | Zn % | Ni % | S % | |
| 74-1 | 1526 | Split Core | 99 | 103 | 4 | .005 | .01 | .01 | .01 | | 19.50 |
| 74-3 | 1527 | " | 83.4 | 88 | 4.6 | nil | | | .01 | | 8.75 |
| | 1528 | " | 88 | 91.5 | 3.5 | nil | | | .01 | | 7.75 |
| | 1529 | " | 91.5 | 94.4 | 2.5 | nil | | | .01 | | 7.75 |
| | 1530 | " | 94.4 | 96.8 | 2.4 | nil | | | .01 | | 7.75 |
| | 1543 | " | 96.8 | 104.4 | 7.6 | nil | | | .01 | | 7.75 |
| | 1531 | " | 104.4 | 110.8 | 6.4 | nil | | | .01 | | 7.75 |
| | 1532 | " | 110.8 | 117.9 | 7.1 | nil | | | .01 | | 7.75 |
| | 1533 | " | 117.9 | 122.7 | 4.8 | nil | | | .01 | | 7.75 |
| | 1534 | " | 122.7 | 127.7 | 5.0 | nil | | | .01 | | 7.75 |
| | 1544 | " | 136.0 | 137.0 | 1.0 | nil | | | .03 | | 7.75 |
| | 1535 | " | 157.5 | 167.4 | 4.9 | nil | | | .04 | | 7.75 |
| | 1536 | " | 201.0 | 206.7 | 5.7 | nil | .01 | | .21 | | 12.00 |
| | 1537 | " | 206.7 | 211.0 | 4.3 | nil | .02 | | .16 | | 12.00 |
| | 1538 | " | 211.0 | 216.0 | 5.0 | nil | .01 | | .15 | | 12.00 |
| | 1539 | " | 216.0 | 219.1 | 3.1 | nil | nil | | .29 | | 12.00 |
| | 1540 | " | 219.1 | 221.2 | 2.1 | nil | nil | | .26 | | 12.00 |
| | 1541 | " | 221.2 | 225.2 | 4.0 | .005 | nil | | .21 | | 12.00 |
| | 1542 | " | 225.2 | 226.7 | 1.5 | nil | nil | | .20 | | 12.00 |

MIDLOTHIAN PROJECT

SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSES

| Drill Hole No. | 74-4 | 74-4 | 74-4 | 74-4 | 74-4 | 7405 |
|----------------|-------|-------|-------|-------|-------|-------|
| Sample No. | 1546 | 1548 | 1549 | 1550 | 1554 | 1555 |
| From - | 145.2 | 183.0 | 234.2 | 262.0 | 371.0 | 144.0 |
| To - | 150.5 | 195.0 | 244.5 | 267.6 | 382.0 | 146.0 |
| Feet | 5.3 | 12.0 | 10.8 | 5.6 | 11.0 | 2.0 |
| Arsenic | | | 2 | 2 | 3 | 3 |
| Boron | 2 | 2 | 2 | 1 | | |
| Cobalt | | | 1 | 1 | 2 | 2 |
| Copper | 1 | 1 | 1 | 1 | 1 | 1 |
| Lead | | | 1 | 1 | 2 | 2 |
| Iron | 10 | 10 | 11 | 11 | 12 | 12 |
| Manganese | 6 | 6 | 5 | 5 | 3 | 3 |
| Molybdenum | 1 | 1 | 1 | 1 | 1 | 1 |
| Nickel | 1 | 1 | 2 | 2 | 3 | 3 |
| Titanium | 5 | 6 | 4 | 3 | 1 | 1 |
| Vanadium | | 3 | 3 | | | |
| Zinc | | | | | 2 | 2 |
| Zirconium | 1 | 1 | 1 | 1 | | |

CODE: 1. Tr. -Less than .01% 7. .2 - 1%
 2. .005 - .03% 8. .5 - 3%
 3. .01 - .05% 9. 1 - 5%
 4. .02 - .1% 10. 2 - 10%
 5. .05 - .3% 11. 5 - 30%
 6. .1 - .5% 12. More than 10%

Cost of Assays - 6 X \$15. = \$90.00

| Hole No. | Sample No. | Type of Sample | Footage | | Ft. | Assay | | | | | Co |
|----------|------------|----------------|---------|-------|------|--------------|-----------|-----------|----|--------|---------|
| | | | From | To | | Au oz/ton | Cu ppm | Zn ppm | Ni | S % | |
| 74-4 | 1545 | Split Core | 137.5 | 141.8 | 4.3 | nil | 58 | 180 | | 14.41 | \$14225 |
| | 1546 | " | 145.2 | 150.5 | 5.3 | nil | 50 | 110 | | 15.44 | 14.25 |
| | 1547 | " | 152.8 | 157.8 | 5.5 | nil | 32 | 72 | | 14.56 | 14.25 |
| | 1548 | " | 188.0 | 195.0 | 12.0 | nil | 40 | 78 | | 9.83 | 14.25 |
| | 1549 | " | 234.2 | 244.5 | 10.3 | nil | 29 | 90 | | 32.66 | 14.25 |
| | 1550 | " | 262.1 | 267.6 | 5.6 | nil | 35 | 96 | | 28.06 | 14.25 |
| | 1446 | Sludge | 317 | 326 | 9 | nil | 518 | 552 | | | 8.25 |
| | 1447 | " | 326 | 336 | 10 | nil | 660 | 590 | | | 8.25 |
| | 1553 | Split Core | 330.3 | 340 | 9.7 | nil | 30 | 39 | | | 8.25 |
| | 1448 | Sludge | 336 | 346 | 10 | nil | 535 | 518 | | | 8.25 |
| | 1449 | " | 346 | 356 | 10 | nil | 98 | 122 | | | 8.25 |
| | 1450 | " | 356 | 366 | 10 | nil | 42 | 82 | | | 8.25 |
| | 1451 | " | 366 | 376 | 10 | nil | 60 | 98 | | | 8.25 |
| | 1452 | " | 376 | 390 | 14 | nil | 134 | 196 | | | 8.25 |
| 1453 | " | 390 | 395 | 5 | nil | 88 | 122 | | | 8.25 | |
| 1554 | Split Core | 371 | 382 | 11 | .005 | 38 | 58 | | | 8.25 | |
| 74-5 | 1457 | Sludge | 130 | 140 | 10 | nil | 79 | 350 | | | 8.25 |
| | 1458 | " | 140 | 150 | 10 | nil | 68 | 406 | | | 8.25 |
| | 1459 | " | 144 | 147 | 3 | nil | 66 | 150 | | | 8.25 |
| | 1555 | Split Core | 144 | 146 | 2 | nil | 50 | 33 | | | 8.25 |
| | 1556 | " | 146 | 156 | 10 | nil | 58 | 25 | | | 8.25 |
| | 1557 | " | 156 | 162 | 6 | nil | 60 | 38 | | | 8.25 |
| | 1558 | " | 162 | 165.5 | 3.5 | nil | 39 | 70 | | | 8.25 |
| | 1559 | " | 165.5 | 169.2 | 3.7 | nil | 50 | 72 | | | 8.25 |
| | 1560 | " | 169.2 | 173.1 | 3.9 | nil | 22 | 80 | | | 8.25 |

| Hole No. | Sample No. | Type of Sample | Footage | | Ft. | Au oz/ton | Cu ppm | Zn ppm | Ni | S % | t |
|-------------------------|------------|----------------|---------|-----|-----|--------------|-----------|-----------|-----------|----------|-----------------|
| | | | From | To | | | | | | | |
| 74-6 | 1561 | Split Core | 446 | 456 | 10 | nil | | | | | 4.25 |
| | 1562 | " | 456 | 469 | 13 | .005 | 90 | 58 | | | 8.25 |
| | 1563 | " | 469 | 487 | 8 | .01 | 88 | 40 | | | 8.25 |
| | 1564 | Sludge | 452 | 462 | 10 | nil | 223 | 230 | | | 8.25 |
| | 1565 | " | 462 | 472 | 10 | .005 | 262 | 232 | | | 8.25 |
| | 1566 | " | 472 | 482 | 10 | .005 | 290 | 242 | | | 8.25 |
| | 1567 | " | 482 | 487 | 5 | .005 | 290 | 305 | | | 8.25 |
| | 1568 | " | 442 | 452 | 10 | nil | 188 | 120 | | | 8.25 |
| Total 52 Samples | | | | | | 52 | 39 | 32 | 18 | 6 | \$494.00 |

WM. GERRIE, M.A.
D. KERR-LAWSON, B.A., PH.D.

CORRELATION

LABORATORIES LTD.

M. E. WELLER, B.A.
H. E. WELLER

R.R. 6 COBDEN, ONTARIO PHONE 646-7448 (AREA 613)

CERTIFICATE OF ANALYSIS No. 10932 May 4, 1974.

We have analysed spectrographically **6** samples of **pulp**
 Received **May 1 via Swastika** and submitted by **Hanna Mining Co.**
Att: Nelson Hogg Esq. with the following results:

| CODE: | 1. Tr. Less than .01% | 4. .02 to .1% | 7. .2 to 1% | 10. 2 to 10% |
|-------|-----------------------|---------------|-------------|--------------|
| | 2. .005 to .03% | 5. .05 to 3% | 8. .5 to 3% | 11. 5 to 30% |
| | 3. .01 to .05% | 6. .1 to .5% | 9. 1 to 5% | 12. Over 10% |

All listed elements were sought, blank spaces designate "not detected"

Midlothian J. N. H. 74-4 74-5
74-4 74-4 74-4 74-4 74-4 74-5
1546 1548 1549 1550 1554 1555
142.5-150.5 183.0-195.0 234.2-244.5 282.0-297.6 321.0-332.0 149-146

| | | | | | |
|-------------|----|----|----|----|----|
| Antimony | | | | | |
| Arsenic | | 2 | 2 | 3 | 3 |
| Barium | | | | | |
| Beryllium | | | | | |
| Bismuth | | | | | |
| Boron | 2 | 2 | 2 | 1 | |
| Cadmium | | | | | |
| Chromium | | | | | |
| Cobalt | | | 1 | 1 | 2 |
| Copper | 1 | 1 | 1 | 1 | 1 |
| Gallium | | | | | |
| Germanium | | | | | |
| Indium | | | | | |
| Lead | | | 1 | 1 | 2 |
| Iron | 10 | 10 | 11 | 11 | 12 |
| Lithium | | | | | |
| Manganese | 6 | 6 | 5 | 5 | 3 |
| Mercury | | | | | 2 |
| Molybdenum | 1 | 1 | 1 | 1 | 1 |
| Nickel | 1 | 1 | 2 | 2 | 3 |
| Niobium | | | | | |
| Rare Earths | | | | | |
| Yttrium | | | | | |
| Lanthanum | | | | | |
| Silver | | | | | |
| Thorium | | | | | |
| Tin | | | | | |
| Titanium | 5 | 6 | 4 | 3 | 1 |
| Tungsten | | | | | |
| Uranium | | | | | |
| Vanadium | | 3 | 3 | | |
| Zinc | | | | 2 | 2 |
| Zirconium | 1 | 1 | 1 | 1 | |



Swastika, Ont., POK 1T0, May 8, 1974 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 44295

We have assayed thirteen samples of split core and sludge

Received May 7, 1974 and submitted by The Hanna Mining Company

Attention: Nelson Hogg, Esq. with the following results:

| Sample No. | Gold Oms/ton | Copper Micrograms | Zinc Micrograms |
|--------------------------------|--------------|-------------------|-----------------|
| <i>OH</i> 1556 <i>Core</i> | Nil | 58 | 25 |
| 1557 " | Nil | 60 | 38 |
| <i>74-5</i> 1558 " | Nil | 39 | 70 |
| 1559 " | Nil | 50 | 72 |
| 1560 " | Nil | 22 | 80 |
| 1561 " | Nil | | |
| 1562 " | 0.005 | 90 | 58 |
| <i>OH</i> 1563 " | 0.01 | 88 | 40 |
| <i>74-6</i> 1564 <i>Sludge</i> | Nil | 223 | 230 |
| 1565 " | 0.005 | 262 | 232 |
| 1566 " | 0.005 | 280 | 242 |
| 1567 " | 0.005 | 290 | 305 |
| 1568 " | Nil | 188 | 120 |

SWASTIKA LABORATORIES LIMITED,

per: *B.C. Van Smaalen*

Swastika, Ont., POK 1T0,Apr. 30, 1974.....19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 44285.....

We have assayed four.....samples of split core and sludge.....

Received Apr. 29, 1974.....and submitted by The Hanna Mining Company.....

.....with the following results:
Attention: Nelson Hogg, Esq.

| Sample No. | Gold Ozs/ton | Copper ppm | Zinc ppm |
|------------|--------------|------------|----------|
| 1555 | Nil | 50 | 33 |
| 1457 | Nil | 79 | 350 |
| 1458 | Nil | 68 | 406 |
| 1459 | Nil | 66 | 150 |

SWASTIKA LABORATORIES LIMITED,

per: *N. C. Kerr-Lawson*

In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

Swastika, Ont., POK 1T0, Apr. 26, 1974 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

APR 30 1974

No. 44275

We have assayed sixteen samples of split core and sludge

Received Apr. 24, 1974 and submitted by The Hanna Mining Company.

Attention: Nelson Hogg, Esq. with the following results:

| Sample No. | Geochemical | | | |
|------------|----------------------|-------------------|--------------------|------------------|
| | Gold 9.25 Ozs/ton | Sulphur % 6.00 | Copper ppm 2.00 | Zinc ppm 2.00 |
| 1545 | Nil | 14.41 | 58 | 180 |
| 1546 | Nil | 15.44 | 50 | 110 |
| 1547 | Nil | 14.56 | 32 | 72 |
| 1548 | Nil | 9.83 | 40 | 78 |
| 1549 | Nil | 32.66 | 29 | 90 |
| 1550 | Nil | 28.06 | 35 | 96 |
| 1553 | Nil | | 30 | 39 |
| 1554 | 0.005 | | 38 | 58 |
| 1446 | Nil | | 518 | 552 |
| 1447 | Nil | | 660 | 590 |
| 1448 | Nil | | 535 | 518 |
| 1449 | Nil | | 98 | 122 |
| 1450 | Nil | | 42 | 82 |
| 1451 | Nil | | 60 | 98 |
| 1452 | Nil | | 134 | 196 |
| 1453 | Nil | | 88 | 122 |

SWASTIKA LABORATORIES LIMITED,

per: J. C. [Signature]

In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

Swastika, Ont., POK 1T0, Apr. 17, 1974 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 44268

APR 26 1974

We have assayed eighteen samples of split core

Received Apr. 16, 1974 and submitted by The Hanna Mining Company.

Attention: Nelson Hogg, Esq.

with the following results:

00H 74-3

| Sample No. | Gold Oass/ton | Nickel % | Copper % |
|------------|---------------|----------|----------|
| 1527 | Nil | 0.01 | |
| 1528 | Nil | 0.01 | |
| 1529 | Nil | 0.01 | |
| 1530 | Nil | 0.01 | |
| 1531 | Nil | 0.01 | |
| 1532 | Nil | 0.01 | |
| 1533 | Nil | 0.01 | |
| 1534 | Nil | 0.01 | |
| 1535 | Nil | 0.04 | |
| 1536 | Nil | 0.21 | 0.01 |
| 1537 | Nil | 0.16 | 0.02 |
| 1538 | Nil | 0.15 | 0.01 |
| 1539 | Nil | 0.29 | None |
| 1540 | Nil | 0.26 | None |
| 1541 | 0.005 | 0.21 | None |
| 1542 | Nil | 0.20 | None |
| 1543 | Nil | 0.01 | |
| 1544 | Nil | 0.03 | |

SWASTIKA LABORATORIES LIMITED,

per: *E. C. [Signature]*

Swastika, Ont., POK 1T0, Apr. 9, 1974 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 44252-A

We have assayed..... samples of

Received..... and submitted by..... The Hanna Mining Company,

..... Attention: Nelson Hogg, Esq...... with the following results:

| Sample No. | Gold Ozs/ton |
|------------|--------------|
| 1526 | 0.005 |

SWASTIKA LABORATORIES LIMITED,

per: *D. C. Hu* Swastika

Swastika, Ont., POK 1T0, *Apr. 4, 1974* 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. *44252*

We have assayed *one* samples of *split core*

Received *Apr. 3, 1974* and submitted by *The Hanna Mining Company*

..... with the following results:

| Sample No. | Copper % | Nickel % | Zinc % |
|------------|----------|----------|--------|
| 1526 | 0.01 | 0.01 | 0.01 |

SWASTIKA LABORATORIES LIMITED,

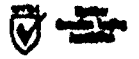
per: *J. C. [Signature]*

In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

TEL. 648-3844
DRAWER 10

SWASTIKA, ONT. April 20 1974

The Hanna Mining Co. Attn: H. Hogg, Esq.
Box 69, Yogo St. Toronto M5G 1K3



TO SWASTIKA LABORATORIES LIMITED

| DATE | CERT. No. | | AMOUNT | DATE | CERT. No. | AMOUNT |
|--------|-----------|---------------|--------|------|-----------|--------|
| 1974 | | | | | | |
| Apr. 4 | 44272 | Cu, Ni, Zn | 15 25 | | | |
| 9 | 44252-A | Au | 4 25 | | | |
| 16 | 44262 | 18 Au, Ni | 126 75 | | | |
| | | 7 Cu | 29 75 | | | |
| 26 | 44272 | 16 Au | 68 00 | | | |
| | | 6 S | 42 00 | | | |
| | | 16 Cu, Zn | | | | |
| | | (Geochemical) | 64 00 | | | |
| 30 | 44282 | 4 Au | 17 50 | | | |
| | | 4 Cu, Zn | | | | |
| | | (Geochemical) | 16 00 | | | |

h/h

420-2.

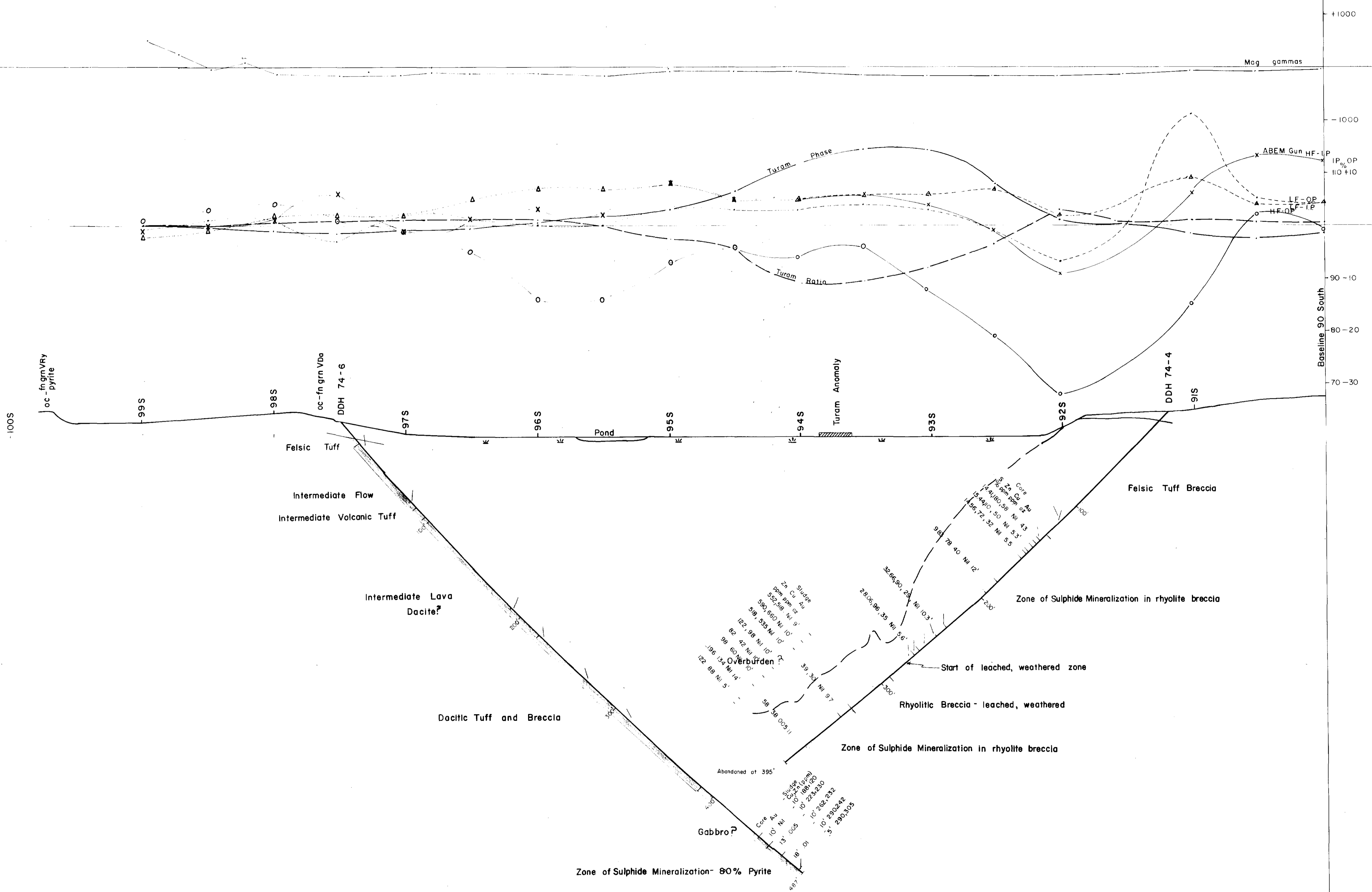
Ch. # *117*
[Signature]

ACCOUNTS DUE WHEN RENDERED
 CHECK HERE IF RECEIPT REQUIRED

M. J. Isthian
Jat.

| | |
|--------------|--------|
| TOTAL | |
| OLD BALANCE | |
| PAID ON ACCT | |
| AMOUNT DUE | 383 00 |

Hanna M. Co



THE HANNA MINING COMPANY
 NORTH-SOUTH CROSS-SECTION
 OF DIAMOND DRILL HOLES
 74-4 AND 74-6
 Scale: 1" = 40' Line 20+00 East
 Date: May, 1974
 Drawn By: J.Lake

