



42L07NW0011 12 MAUN LAKE

010

Diamond Drilling

Area Maun Lake

Report N^o 12

Work performed by: New Athona Mines Ltd.

| Claim N ^o | Hole N ^o | Footage | Date | Note |
|----------------------|---------------------|---------|-------------|------|
| KK 7952 | S-1 | | Sept/55 | |
| | S-5 | | Sept/55 | |
| | S-6 | | Sept/55 | |
| | S-7 | | Sept./55 | |
| | S-8 | | Sept-Oct/55 | |
| KK 7955 | S-2 | | Sept./55 | |
| | S-3 | | Sept/55 | |
| | S-4 | | Sept/55 | |
| | S-9 | | Oct/55 | |

Notes:

Drill Hole Log

Dip Tests

At 150 Ft. 32°
 At 300 Ft. 32½°
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____

Property Newman
 At O'Sullivan Lake
 Claim No. KK 7952
 Working Place No. 1 Prospect
 Baseline Footage 0 ± 62.58 N
 Baseline Offset 173.0' E
 Date Started Date Aug. 31, 1955
 Date Completed Sept. 3, 1955

Hole Number S. 1
 Dip 31°
 Length 315
 Bearing Due W.
 Elev. Collar 4987.0
 Horiz. Trace _____
 Vert. Trace _____
 Date Logged Sept. 3, 1955

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|------|------|--|---------------|-------|
| 0 | 4.0 | Casing | | |
| 4.0 | 5.0 | Quartz porphyry with prominent quartz phenocrysts in a dark siliceous matrix - possibly some pyrrhotite - chalcopyrite mineralization. | | |
| | | 4.0 - 5.0 (1.0) | 0182 0012 | TR |
| 5.0 | 17.1 | Basalt - dense fine grained greenish black with some patchy brown coloration. Well fractured but with no apparent pattern. Small patches of porphyry at 10 and 15 feet. Fractures plated with light coloured sulphide possibly arsenopyrite. Splotches of pyrrhotite - chalcopyrite scattered throughout the section, particularly at 6, 10 & 13.5 feet. | | |
| | | 5.0 to 8.5 (3.5) | 0183 0013 | .21 |
| | | 8.5 - 12.5 (4.0) | 0184 0014 | .05 |
| | | 12.5 - 17.1 (4.6) | 0185 0015 | .02 |
| 17.1 | 21.5 | Quartz porphyry - no discernible mineralization | | |
| 21.5 | 23.8 | Basalt intermixed with contact porphyry and quartz filling with some pyrrhotite. | | |
| | | 21.5 - 23.8 (2.3) | 0106 | .03 |
| | | END OF HOLE | | |

Company.....

Drill Hole Log

Date Logged..... Hole Number..... S. 1 Sheet Number..... 2

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|------|------|--|---------------|-------|
| | 23.8 | 36.7 | Brecciated basalt with some intermixed porphyry and quartz. Scattered pyrrhotite - chalcopyrite with 2 inches of well mineralized vuggy material at 32.7 feet. | | |
| | | | 23.8 - 25.0 (1.2) | 0107 | TR |
| | | | 25.0 - 27.6 (2.6) | 0108 | .04 |
| | | | 27.6 - 31.8 (4.2) | 0109 | .05 |
| | | | 31.8 - 34.2 (2.4) | 0110 | .16 |
| | | | 34.2 - 36.7 (2.5) | 0111 | .16 |
| | 36.7 | 41.7 | Basalt with some breccia and included porphyry. Sparse sulphides | | |
| | | | 39.4 - 41.7 (2.3) | 0112 | .10 |
| | 41.7 | 42.9 | Silicified greenstone with inclusions of porphyry and some scattered pyrrhotite - chalcopyrite. | | |
| | 42.9 | 57.7 | Basalt with some breccia and quartz, occasional splotches of pyrrhotite - chalcopyrite and a veinlet of massive sulphide at 48.8. | | |
| | | | 42.9 - 46.3 (3.4) | 0113 | .05 |
| | | | 46.3 - 50.0 (3.7) | 0114 | .08 |
| | | | 50.0 - 55.0 (5.0) | 0115 | .08 |
| | | | 55.0 - 57.7 (2.7) | 0116 | .10 |
| | 57.7 | 60.2 | Silicified greenstone with intermixed porphyry and small remnants of unaltered greenstone. Sparse pyrrhotite - chalcopyrite. | | |

Logged by.....

Company.....

Drill Hole Log

Date Logged..... Hole Number..... S. 1..... Sheet Number..... 3.....

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|---|---------------|-------|
| | 60.2 | 63.3 | Brecciated basalt with some quartz filling and pyrrhotite - chalcopyrite with a well mineralized section at 62.5 feet containing a third bright sulphide (pyrite or arsenopyrite) | | |
| | | | 60.2 - 63.3 (3.1) | 0117 | .13 |
| | 63.3 | 70.0 | Quartz porphyry | | |
| | 70.0 | 72.9 | Silicified greenstone very difficult to distinguish from fine grained dike rock. Abrupt contact at end of section. Scattered pyrrhotite - chalcopyrite. | | |
| | 72.9 | 157.9 | Quartz porphyry contains a number of sections of well integrated silicified greenstone which show scattered minute disseminations of pyrrhotite - chalcopyrite, while the porphyry is relatively barren. | | |
| n | 157.9 | 166.1 | Basalt, fine grained and dark with brown (carbonated?) patches becoming brecciated. | | |
| | | | 157.9 - 162.9 (5.0) | 0118 | .13 |
| | | | 162.9 - 166.1 (3.2) | 0119 | .08 |
| | 166.1 | 209.0 | Basalt breccia - considerably altered by carbonation and possibly chloritization. Scattered quartz filling with associated pyrrhotite - chalcopyrite mineralization. Vuggy crystallization at 207.5 ft. but generally not evident elsewhere. 1 inch good mineralization at 177 feet, 5 inches at 187 feet, 14 inches at 193 feet and several short sections from 195 to 209 feet. | | |

Logged by.....

Company.....

Drill Hole Log

Date Logged..... Hole Number..... S. 1 Sheet Number..... 4

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|--|---------------|-------|
| | | | 166.1 - 169.4 (3.3) | 0120 | .65 |
| | | | 169.4 - 172.9 (3.5) | 0121 | .26 |
| | | | <u>0.428 / 51.1</u> 172.9 - 176.0 (3.1) | 0122 | .16 |
| | | | 176.0 - 181.0 (5.0) | 0123 | .45 |
| | | | 181.0 - 186.0 (5.0) | 0124 | .08 |
| | | | 186.0 - 188.8 (2.8) | 0125 | .31 |
| | | | <u>0.769 / 16.2</u> 188.8 - 190.0 (1.2) | 0126 | .73 |
| | | | 190.0 - 195.0 (5.0) | 0127 | .73 |
| | | | 195.0 - 200.0 (5.0) | 0128 | .89 |
| | | | 200.0 - 205.0 (5.0) | 0129 | .79 |
| | | | 205.0 - 209.0 (4.0) | 0130 | .42 |
| 2090 | 214.8 | | Silicified greenstone, a remarkable contrast to the porphyry, shows dark mineral particles in a mass while the porphyry has very white quartz phenocrysts in a dark matrix. As is usually the case with this rock type minute disseminations of pyrrhotite - chalcopyrite are scattered throughout the section. | | |
| | 214.8 | 219.2 | Quartz porphyry | | |
| | 219.2 | 250.0 | Silicified greenstone, or possibly could be classed as a contact phase of the intrusive. Texture is similar to the previous sections from 209 ft. but with somewhat more mineralization which seems to be of three types. (1) Platy sulphides (pyrite, arsenopyrite or marcasite) are found on the many fracture plans in the section. (2) Minute disseminations of pyrrhotite or pyrrhotite-chalcopyrite as previously described occur from 227 to 237.8 feet. | | |

Logged by.....

Company.....

Drill Hole Log

Date Logged..... Hole Number S. 1 Sheet Number 5

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|---|---------------------|-------------|
| | | | (3) From 235.5 to 237.5 pyrrhotite-chalcopyrite mineralization occurs massively along openings more or less as a replacement as well as disseminations mentioned above. The rock type suggests the gold bearing rocks frequently found with or near porphyry. | | |
| | | | | 233.5 - 237.8 (A.B) | 9131 (A.10) |
| | 250.0 | 255.8 | Quartz porphyry | | |
| | 255.8 | 267.8 | Silicified greenstone. | | |
| | 267.8 | 310.4 | Andersite - fine grained, dark grey, ^{green} golden, abruptly contacts with the silicified rock - little mineralization. | | |
| | 310.4 | 315.0 | Quartz porphyry - sharp contact with the andersite Fractures show some platy sulphides. | | |
| | | | END OF HOLE | | |
| | | | <u>NOTE:</u> A re-examination of the core showed that there were two more common sets of fractures, one at about 65° to the axis of the core and the other at about 20°, no displacement was noted. | | |
| | | | - Some curved flow lines were noted but nothing sufficiently definite to identify pillow structure. | | |

Logged by.....

8-4-121

Company New Athona Mines Limited

Drill Hole Log

Dip Tests

At 150 Ft. 45° - 30
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____

Property Newman
 At 0! Sullivan Lake
 Claim No. 7955
 Working Place No. 1 Prospect
 Baseline Footage 0 + 37.85' S
 Baseline Offset 0 + 83.0'E
 Date Started Sept. 4
 Date Completed Sept. 7

Hole Number 8 - 2
 Dip 45°
 Length 228.0'
 Bearing Due W.
 Elev. Collar 4984.7
 Horiz. Trace -
 Vert. Trace -
 Date Logged Sept. 7

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|-------|-------|---|---------------|-------|
| 0 | 2.0 | Casing | | |
| 2.0 | 94.3 | Quartz porphyry, usual prominent phenocrysts in dark gray matrix becoming green at 48 feet. Some digested greenstone at first 10 feet. 9 inches of mottled greenstone at 17 feet. Some altered greenstone between 66 and 70 feet and at 88 feet the latter shows some fair pyrrhotite mineralization. Throughout the section occasional minute patches of pyrrhotite occur with platy sulphides on the fractures. | | |
| 94.3 | 118.5 | Basalt, slightly andestic, abrupt contact with porphyry. The rock is not as dense and black as the corresponding rock on surface. Last 16 inches show some brecciation. | | |
| 118.5 | 124.0 | Breccia - so called for logging purposes, but is more of a tightly crushed rock. First part of section well filled with quartz remained out with many fine hairlike calcite stringers. Rock has a drab buff colour much like a rhyolite but probably due to carbonation. There is no mineralisation except for some sulphide on the fractures. | | |
| 124.0 | 136.6 | Silicified greenstone with a porphyry-like texture, carbonation decreases. Scattered pyrrhotite has some occasional associated chalcopyrite. | | |
| | | END OF HOLE | | |

Logged by.....

Drill Hole Log

8 - 3.

Dip Tests

At **150.0** Ft. **30° 30'**
 At Ft.
 At Ft.
 At Ft.
 At Ft.
 At Ft.

Property **Newman Group,**
 At **0' Sullivan Lake, Ont.**
 Claim No. **KK 7955.**
 Working Place **No. 1 prospect.**
 Baseline Footage **0 - 37.85' S.**
 Baseline Offset **0 - 81.0' E.**
 Date Started **Sep 7, 1955.**
 Date Completed **Sep 10, 1955.**

Hole Number **28° 30'**
 Dip
 Length **230.9'**
 Bearing **Due west.**
 Elev. Collar **4997.2**
 Horiz. Trace
 Vert. Trace
 Date Logged **Sep 11, 1955.**

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|------|-------|---|---------------|-------|
| .00 | 3.0' | Casing. | | |
| .0 | 80.0 | Quartz porphyry. Texture more prominent towards end of section where angular phenocrysts are in contrast to dark black matrix. Altered greenstone inclusions from 10.0 to 15.5 show more disseminated pyrrhotite otherwise only mineral is platy sulphides on the fractures. Section from 74.0 to 75.5' shows pyrrhotite with some fine chalc. | | |
| .0 | 111.4 | Basalt. Fine grained but greenish than surface work shows. Shows more breccia but little qtz. filling. Several patches of pyrrhotite-chalc. replacement mineralization, continuous in length scattered thro section. | | |
| | | 80.0 - 85.0 (5.0') | 0132 | |
| | | 85.0 - 90.0 5.0 | 0133. | |
| | | 90.0 - 95.0 5.0 | 0134. | |
| | | 95.0 - 100.0 5.0 | 0135. | |
| | | 100.0 - 103.6 3.6 | 0136. | |
| 1.4 | 118.2 | Basalt breccia. Much like previous section except with considerable qtz. filling - sparse pyrrhotite-chalc. mineralization scattered thro-out. | | |
| | | 111.4 - 115.0 3.6' | 0137 | |
| | | 115.0 - 118.2 3.2 | 0138 | |
| 8.2 | 125.6 | Quartz porphyry. | | |
| | | ***** END OF HOLE | | |

J.H.W.

Logged by.....

8-4-121

Company New Athona Mines Ltd.**Drill Hole Log**

Dip Tests

125.0 Ft. 46°00'

At Ft.
 At Ft.
 At Ft.
 At Ft.
 At Ft.

Property Newman Group.
 At 0' Sullivan Lake, Ont.
 Claim No. KK 7955.
 Working Place No. 1 prospect.
 Baseline Footage 1 + 37.8' S.
 Baseline Offset 57.0'
 Date Started Sep 11, 1955.
 Date Completed Sep 14, 1955.

Hole Number 8-4.
 Dip 45 degrees.
 Length 204.3 feet.
 Bearing Due west.
 Elev. Collar 4993.75
 Horiz. Trace
 Vert. Trace
 Date Logged Sep 14, 1955.

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|-------|------|--|---------------|-------|
| 0.00 | 3.5' | Casing. | | |
| 3.510 | 38.4 | Quartz feldspar porphyry. Typical greyish colour containing abundant milky white plagioclase phenocrysts with some qtz. phenocrysts which vary in amount giving in a considerably lighter colour at different locations. Contains a good amount of very fine bright sulphides, pyrrhotite & pyrite, peppered thro the section. Concentration of finely disseminated chalco. at 16.8 - 17.1. On close examination this appears to be an isolated occurrence in the porphyry. | | |
| | | 16.5 - 18.0' (1.5') | D140. | |
| 38.4 | 39.0 | QUARTZ VEIN. This vein contains a little intermingled greenstone. No visible mineralization. | | |
| 39.0 | 48.8 | Quartz feldspar porphyry. Altered & carbonated. Contains a few small qtz. stringers | | |
| 48.8 | 52.7 | ANDESITE. Light grey-green coloured. Fine grained typical. | | |
| 52.7 | 54.9 | QUARTZ FELDSPAR PORPHYRY. | | |
| 54.9 | 60.5 | ANDESITE. Contains a series of qtz. stringers & veinlets at 55.9 and 57.5 - 60.0' Also a little pyrrhotite. | | |
| 60.5 | 65.4 | PORPHYRY. Light grey coloured, fine grained ground mass. White feldspar phenocrysts in abundance. | | |
| | | END OF HOLE | | |

R.H.B.

Logged by.....

Drill Hole Log

Date Logged Sept. 14, 1955.

Hole Number B-4.

Sheet Number -2-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|------------------|-------|---|---------------|-------|
| | 65.4 | 94.2 | Basalt. Typical, fine grained, dark coloured. Contains a few patches of pyrrhotite mineralization. | | |
| | 94.2 | 103.8 | PORPHYRY. Light greyish colour, numerous whitish feldspar phenocrysts. Contains a little scattered pyrr. | | |
| | 103.8 | 139.0 | BASALT. Slightly altered & carbonated at contact from 103.8 - 108.0'. Quartz stringer at 104.1'. Is again altered near contact at 139.0. | | |
| | 139.0 | | Slightly altered from 130.0-132.6 and highly altered fault material with crushed appearance and heavily mineralized with pyrrhotite and a small amount of chalc. from 132.6-133.3'. 133.3-133.9 is silicified and carbonated and from 133.9-137.0 is brecciated & silicified greenstone containing isolated blebs of pyrrhotite. | | |
| | 139.0 | 173.4 | PORPHYRY Highly silicified from 139.0-141.0'. Resembles silicified greenstone but has phenocryst pattern Section gradually grades into a silicified, fine grained material showing a very faint phenocryst pattern. | | |
| | 173.4 | 198.0 | Andesite. Lightish green, fine grained. No visible mineral. | | |
| | 198.0 | 204.3 | PORPHYRY. Blackish grey coloured, typical of drilling to date. | | |
| | 204.3' | | END OF HOLE. | | |
| | | | 132.6 - 133.9' (1.3') | 0141 | |

Drill Hole Log

8 - 5.

Dip Tests

At 150. Ft. 43° 25'
 At 300 Ft. 47° 00'
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____

Property Newman Group.
 At 0' Sullivan Lake, Ont.
 Claim No. KK 7952
 Working Place No. 1 prospect.
 Baseline Footage 1 + 62.6' N.
 Baseline Offset 115.0' E.
 Date Started Sept. 15, 1955.
 Date Completed Sept. 18, 1955.

Hole Number _____
 Dip 45°
 Length 303.0'
 Bearing Due west.
 Elev. Collar 4985.66
 Horiz. Trace -----
 Vert. Trace -----
 Date Logged Sept. 19-20/55

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|-------|--------|--|---------------|-------|
| 0.0 | 5.0' | Casing. | | |
| 5.0 | 135.0 | <u>PORPHYRY.</u> Typical main east porphyry dike material. Greyish in color, varying amounts of plagioclase phenocrysts and qtz. Qtz Contains a few specks of pyrrhotite d&ss&minated thro-out. 51.0 - 63.0 darker appearing with a dark grey to blackish ground mass and abundant phenocrysts. 63'- 73' lighter in colour. 73.0 - 75.5' darker phase again, 75.5 - 135.0' more greyish in colour. | | |
| 135.0 | 179.0 | <u>BRECCIA ZONE.</u> Volcanic breccia, andesitic. Some feldspar fragments and large rounded feldspatic inclusions in entire section. Qtz. vein at 137.0 - 137.6'. Poorly mineralized with a few scattered patches of pyrrhotite, no chalco visible. Section 150' - 179.0' shows scattered fragments from minute size up to two inches in diameter of porphyritic and volcanic origin. | | |
| 179.0 | 185.5 | <u>PORPHYRY</u> Dark, fine grained groundmass sprinkled with small to medium size phenocrysts. | | |
| 185.5 | 193.5 | <u>BRECCIA ZONE.</u> Volcanic breccia, andesite. Poorly mineralized with pyrrhotite. | | |
| 193.5 | 203.0' | <u>ANDESITE.</u> Light grey-green, fine grained, typical. | | |
| | | END OF HOLE | | |

Drill Hole LogDate Logged Sept. 19/55. Hole Number S-5. Sheet Number -2-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|---|---------------|-------|
| | 203.0 | 206.3 | <u>PORPHYRY.</u> | | |
| | 206.3 | 221.3 | <u>BASALT.</u> Dark, greenish colour. Fine grained. No mineral. | | |
| | 221.3 | 235.4 | <u>PORPHYRY.</u> Dark to black coloured groundmass composed of a dark mineral and a predominance of quartz with a lesser amount of plagioclase phenocrysts. Fair amount of finely disseminated pyrrhotite. | | |
| | 235.4 | 248.2 | <u>BASALT.</u> Typical greenish, shows some carbonatization, in form of very narrow stringers of whitish carbonates intruded along fracture planes cutting across the core at approximately 75-85 degrees to vertical horizontal | | |
| | 248.2 | 257.7 | <u>SILICIFIED GREENSTONE.</u> Dense, fine grained, light greenish coloured and very highly silicified. A section from 248.2 - 250.2 is highly silicified, fractured and carbonated. Contains good chalcopryite mineralization which is intruded along fractures planes and associated with a white carbonate and chlorite. Some chalco. also associated with white carbonate in the form of replacement patchy mineralization. | | |
| | 257.7 | 265.8 | <u>PORPHYRY ?.</u> Some question here. Light grey-green in colour and has an andesitic appearance but has a definite but faint phenocryst pattern. There appears to be a definite sharp contact at 265.8 where there is an almost imperceptible change and the phenocryst pattern disappears and grades into silicified grn. The <u>odd</u> patch of chalco in this section. | | |
| | 265.8 | 303.0 | <u>SILICIFIED GREENSTONE.</u> Highly silicified greenstone resembling 248.2 - 257.7. Tiny quartz & carbonate stringers cutting core at steep angles 75-85 degrees to horizontal. | | |

Logged by.....

8-5-120

Company New Athona Mines Limited

Drill Hole Log

Dip Tests

At 150 Ft. 46°
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____

Property Newman Group
 At O'Sullivan Lake, Ont.
 Claim No. KK-7952
 Working Place Prospect No. 1.
 Baseline Footage 0 + 12.15 N.
 Baseline Offset 1 + 34.0 W.
 Date Started Sept. 20/55
 Date Completed Sept. 24/55

Hole Number S-6
 Dip 45°
 Length 287.5
 Bearing Due East
 Elev. Collar 4997.06.
 Horiz. Trace -----
 Vert. Trace -----
 Date Logged Sept. 25/55

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|------|-------|---|---------------|-------|
| 0.0 | 4.5' | Casing | | |
| 4.5 | 40.3 | <u>BASALT</u> Fine grained, darkish green, qtz. & carbonate filled fractures cutting core at various angles. 7.0 - 7.7' pyrrhotite mineralized fractures with some replacement - no visible chalco. Lighter coloured, more carbonated from 26.5' to contact at 40.3'. Isolated small specks of chalco. associated with whitish carbonates at 26.5' and 40.1', qtz, vein at 36.5' to 36.75' (2.5"). Attendant highly carbonated rock for one foot on each side of vein. | | |
| 40.3 | 50.5' | <u>PORPHYRY DIKE</u> | | |
| 50.5 | 95.0 | <u>BASALT</u> Shows some <u>porphritization</u> from 50.5 to 53.7'. Small finger of porphyry 53.5 to 53.7'. Core fractured and mineralized with pyrrhotite and a few specks chalco from 75.6 to 79.0'. Highly silicified and carbonated with qtz. stringers from 82.3 - 83.0'. Qtz. vein from 92.6 - 93.0'. Fair chalcopryite mineralization from 92.5' to 94.0' | | |
| | | 80.5 to 84.0 (3.5') | 0142 | |
| | | 84.0 to 89.0 (5.0') | 0143 | |
| | | 89.0 to 92.5 (3.5') | 0144 | |
| | | 92.5 to 94.0 (1.5') | 0145 | |
| | | END OF HOLE 94.0 to 100.0 (6.0') | 0146 | |

Logged by.....

Drill Hole Log

Date Logged Nov. 25/55.

Hole Number H-6.

Sheet Number 2

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|--------|--|---------------|-------|
| | 95.0 | 153.0' | <u>SILICIFIED GREENSTONE.</u> Very highly silicified with qtz. stringers from 95.0 - 100.0', and containing pyrrhotite and a few specks of chalc. qtz. veinlets noted at following locations: 95.7 to 95.9; 97.8 to 98.0; 99.0; 108.6 to 108.8; 132.1 to 132.6; 133.9 to 134.4. Section from 136.6 to 138.2 is silicified contains a number of small qtz. stringers with a little chalc. and some pyrrhotite. 136.6 to 138.2' (1.6') | 0150 | |
| | 153.0 | 159.7 | <u>POPHYRY DIKE.</u> Has a dark, greyish groundmass and plentiful fold-spar phenocrysts. | | |
| | 159.7 | 168.2 | <u>SILICIFIED GREENSTONE.</u> Resembles preceding section closely. Small fractures cutting core at 164.0 to 164.8' shows a little chalc. & pyrrhotite mineralisation associated with milky white carbonates. | | |
| | 168.2 | 182.3 | <u>POPHYRY DIKE.</u> Light grey in colour with a faint phenocryst pattern. Contains a little scattered chalc. with attendant white carbonates through section. | | |
| | | | 168.2 to 173.0 (4.8) | 0151 | |
| | | | 173.0 to 178.0 (5.0) | 0152 | |
| | | | 178.0 to 182.3 (4.3) | 0153 | |

Logged by.....

Drill Hole Log

Date Logged Nov 25/55 Hole Number U-6 Sheet Number 3

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|---|---------------|-------|
| | 182.3 | 185.3 | <u>SILICIFIED GNEISS.</u> Contains a little chalc. & pyrrhotite. 182.3 to 185.3 (3.0) | 0154. | |
| | 185.3 | 190.0 | <u>DIOGONIA ZONE.</u> Large feldspar inclusions in a dark, grey groundmass Contains a little chalc. & some pyrrhotite. 185.3 to 190.0 (4.7) | 0155. | |
| | 190.0 | 201.1 | <u>DIABASE.</u> Dark, grey-green colour. Numerous minute carbonate stringers cutting core at various angles. Contains a few isolated patches of pyrrhotite and two small patches of chalc. at 191.1 and 195.0' | | |
| | 201.1 | 202.2 | <u>PORPHYRY DIKE.</u> Dark, basic, fine grained groundmass. Plentiful feldspar phenocrysts. Most basic looking porphyry in drilling to date. | | |
| | 202.2 | 205.7 | <u>DIABASE.</u> Darkish green, fine grained. | | |
| | 205.7 | 210.6 | <u>PORPHYRY DIKE.</u> Same in appearance as preceding dike. Highly silicified from 205.7 to 207.0' | | |
| | 210.6 | 216.6 | <u>DIABASE.</u> | | |
| | 216.6 | 239.5 | <u>ANDESITE.</u> Medium grained, light green-grey in colour. | | |
| | 239.5 | 281.7 | <u>DIABASE.</u> This section is typical of basalt formation. | | |

Logged by.....

8-5-120

Company New Athona Mines Limited

Drill Hole Log

Dip Tests

At 200 Ft. 45°
 At 400 Ft. 45° 40'
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____

Property Newman Group.At 0' Sullivan Lake, Ont.Claim No. KK-7952.Working Place No. 1 prospect.Baseline Footage 0 + 62.58 N.Baseline Offset 2 + 83.0' E.Date Started Sept. 25th, 1955.Date Completed Sep. 29th, 1955.

Hole Number

8-7

Dip 45°Length 449.8'Bearing Due west.Elev. Collar 4980.74

Horiz. Trace _____

Vert. Trace _____

Date Logged Sep 28/'55.

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|-------|-------|---|---------------|-------|
| 0.0 | 15.0' | Casing. | | |
| 15.0 | 95.4' | <u>BASALT.</u> | | |
| | | Dark green colour, fine grained and typical of drilling. | | |
| | | Numerous small carbonate filled fractures, a few containing a little chalco. and pyrrhotite, one at 22.65'. | | |
| | | Section also cut by a number of quartz stringers and adjacent silicification of basalt. | | |
| 95.0 | 97.6 | <u>PORPHYRY DIKE.</u> | | |
| | | Dark grey coloured groundmass with feldspar phenocrysts. | | |
| | | Silicified and fractured, no mineralization. | | |
| 97.6 | 104.0 | <u>SILICIFIED GREENSTONE.</u> | | |
| | | Typical of drilling in appearance. Brecciated from 98.5' to 99.7' | | |
| 104.0 | 194.8 | <u>BASALT.</u> | | |
| | | Dark green, fine grained, typical . Carbonated from 104.0 to 107.0. Patchy mineralization from 104.0 - 105.0, a little chalco. & pyrrhotite. From 107.0 - 175.0' basalt is dark, fine grained and very basic in appearance compared to basalt in core to date, lacking the abundance of small carbonate filled fractures. Poorly mineralized, containing a few specks of pyrrhotite. A narrow band of chalco. & pyrrh. at 171.3'. Quartz vein from 177.3' to 177.8' 177.8', section carbonated from 193.5-194.8'. | | |

Logged by _____

Drill Hole Log

Date Logged Sep 28/'55. Hole Number 8-7. Sheet Number -2-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|--------|--|---------------|-------|
| | 104.0 | 194.8 | (Continued). | | |
| | | | This section lacks the carbonate stringers but contains an abundance, 50%, of white carbonate which is a constituent of the formation. | | |
| | 194.8 | 209.1 | <u>PORPHYRY DIKE.</u> Typical dark grey with feldspar phenocrysts. | | |
| | 209.1 | 216.7 | <u>ANDESITE.</u> Contains a few small Qtz. stringers, no mineral'tn. | | |
| | 216.7 | 314.8 | <u>PORPHYRY DIKE.</u> Main east porphyry dike. Dark grey in colour & silicified from 216.7 - 218.6, & contains a little pyrrh.; greenstone inclusion from 231.6 - 232.4' Section from 238.0 - 250.0' contains a fair amt. of disseminated pyrrhotite but no chalcopryite. Section from 250.0 - 290.0' is much lighter in colour than proceeding section with an altered appearance. 250.0 - 260.0 shows some fracturing & carbonatization, scattered pyrrhotite here as well as continuing section to 295.0'. Section from 295.0 - 307.3 is highly silicified, fractured and carbonated. Section 307.3 - 314.8 is highly altered & carbonated, contains some quartz stringers and a few specks of chalco. at the contact. This section has a somewhat sheared appearance and a slickenside effect. | | |
| | 314.8 | 341.0' | <u>ANDESITE.</u> Light grey green colour. Abundance of Qtz stringers section from 316.0 - 317.0 shows Qtz. stringers and bands, very narrow, containing massive pyrrh. and a few small patches of chalco. Remainder of | | |

Logged by.....

Drill Hole Log

Date Logged Sep 28/'55.Hole Number 8-7.Sheet Number -3-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|---|---------------|-------|
| | 314.8 | 341.0 | (Continued) | | |
| | | | section contains a few qtz. stringers and very little mineralization. | | |
| | 341.0 | 391.0 | <u>PORPHYRY DIKE.</u> | | |
| | | | Light greenish grey in colour, silicified appearance. Narrow qtz. vein at 344.2 (.3") containing a little chalco. & pyrrhotite. Porphyry is more carbonated and browner colour at 373.4 and even more carbonated again from 375.0 - 376.4. From 376.4 to contact at 391.0 core is less carbonated and changes back to a greenish grey colour. A narrow band of carbonated material mineralized with chalco. & pyrr. shows in contact. | | |
| | 391.0 | 405.2 | <u>BASALT.</u> | | |
| | | | Dark, grey-green in colour, fine grained. A qtz. vein, darkish blue in colour intersects core from 403.0 - 403.4 (.4') . Core is altered & silicified from 403.4 - 405.2, this section contains some pyrrhotite.. | | |
| | 405.2 | 409.9 | <u>PORPHYRY DIKE.</u> | | |
| | | | Small qtz. vein at 408.0 with silicification on both contacts. | | |
| | 409.9 | 413.3 | <u>BRECCIA ZONE.</u> | | |
| | | | Highly silicified, pyrrhotite coated fractures. | | |
| | 413.3 | 417.9 | <u>PORPHYRY DIKE.</u> | | |
| | | | Highly silicified from 416.6 - 417.9' | | |
| | 417.9 | 430.6 | <u>ANDESITE.</u> | | |
| | | | Highly altered, silicified & fractured 420.0-423.8 | | |

Logged by.....

8-5-120

Company New Athona Mines Ltd.

Drill Hole Log

8-8

Dip Tests

At 150 Ft. 45°40'
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____
 At _____ Ft. _____

Property Newman Group.
 At 0'Sullivan Lake, Ont.
 Claim No. KK 7952.
 Working Place No. 1 prospect.
 Baseline Footage 2 + 67.58 N.
 Baseline Offset 0 + 62.0 E.
 Date Started Sept. 30 / '55.
 Date Completed 23rd Oct 2nd/55.

Hole Number _____
 Dip 45°
 Length 251.0'
 Bearing Due West.
 Elev. Collar 4983.45
 Horiz. Trace -----
 Vert. Trace -----
 Date Logged Oct 3rd., 1955.

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|------|------|---|---------------|-------|
| 0.0 | 8.5 | Casing. | | |
| 8.5 | 38.2 | <u>Porphyry Dike.</u> Dark grey groundmass, qtz. & feldspar phenocrysts. Altered from 27.7 - 32.0'. This section is altered, lighter colour, well fractured & chloritized. Qtz. stringers at 32.6 & from 36.4 - 37.0' | | |
| 38.2 | 61.3 | <u>BASALT.</u> Darkish green, fine grained, minute carbonate & qtz. stringers throughout section. Altered with qtz. stringers from 46.8 - 47.2 containing a small amount of chalco. | | |
| 61.3 | 63.1 | <u>BRECCIA ZONE.</u> Highly silicified, altered, light coloured mixture with a squeezed, crushed appearance. | | |
| 63.1 | 66.3 | <u>BASALT.</u> Typical in appearance. | | |
| 66.3 | 67.3 | <u>BRECCIA ZONE.</u> Sharp distinct contacts, intrusive, brecciated, altered filling. | | |
| 67.3 | 68.3 | <u>BASALT.</u> XXXXXXXXXX | | |

Logged by.....

Drill Hole Log

Date Logged Oct 3/55. Hole Number S-8. Sheet Number -2-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|---|---------------|-------|
| | 68.3 | 91.8 | <u>SILICIFIED GREENSTONE.</u> Brecciated contact. This entire section is very highly silicified, almost cherty in appearance. It is fine grained, light grey green in colour and well fractured. | | |
| | 91.8 | 95.9 | <u>PORPHYRY DIKE.</u> Light grey colour, almost identical in colour with following section. Has rather obliterated phanocryst pattern. | | |
| | 95.9 | 102.0 | <u>SILICIFIED GREENSTONE.</u> Light grey in colour, highly silicified, fractured and chloritized. Blebs of pyrite on slips and sparsely dessiminated. | | |
| | 102.0 | 104.9 | <u>PORPHYRY DIKE.</u> | | |
| | 104.9 | 137.8 | <u>SILICIFIED GREENSTONE.</u> Greenish grey & well fractured. Marcasite on slips. a few specks of chalco. & pyrrhotite at 130.0' A little pyrite in fractures from 130.0 - 134.0' | | |
| | 137.8 | 157.3 | <u>PORPHYRY DIKE.</u> Typical dike material. | | |
| | 157.3 | 199.2 | <u>BRECCIA ZONE.</u> Highly silicified breccia zone, breccia consists of rounded & angular porphyry and greenstone fragments. Odd speck and patch of chalcopyrite dessiminated through a section from 174.0 - 199.2. This section lines up well with the mineralized section intersected in S-5. | | |

Logged by.....

8-4-121

Company New Athona Mines Limited.

Drill Hole Log

Dip Tests

At Ft.
 At Ft.
 At Ft.
 At Ft.
 At Ft.
 At Ft.

Property Newman Group.
 At O'Sullivan Lake, Ont.
 Claim No. KK 7955.
 Working Place Intersection 1 & 3
fault zones.
 Baseline Footage 6 + 57.35' S.
 Baseline Offset 1400' S 42° E.
 Date Started October 5/55.
 Date Completed October 10/55.

Hole Number 8-9.
 Dip 45°
 Length 356.0'
 Bearing N 42° W.
 Elev. Collar 4961.68
 Horiz. Trace
 Vert. Trace
 Date Logged October 11/55.

| FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|------|-------|--|---------------|-------|
| 0.0' | 4.0' | <u>CASING.</u> | | |
| 4.0' | 71.5' | <u>BASALT.</u> Quartz & pyrrhotite at 29.3', and 38.0' - 38.2'. Heavy sulphides, mostly pyrrhotite & some pyrite at 43.4 - 43.9; 44.3 - 45.9; qtz. & pyrrhotite at 48.0 - 48.3. again at 49.1 - 50.0' Highly carbonated with good scatt. mineralization, pyrrhotite, 50.0 - 55.0'. Basalt light green in colour. Heavy bands pyrrhotite mineralization at 65.7' and 69.8 - 70.3'. Basalt highly carbonated & light green in colour from 70.0 - 71.5' resembling Kerr Addison greenish carbonates. A very little chalco. in above mineralized sections. | | |
| 71.5 | 89.6 | <u>PORPHYRY DIKE.</u> Black, basic groundmass with feldspar phenocrysts from 71.5 to 78.3. Silicified & altered from 78.3 to 89.6'. Latter section is light grey in colour and definitely suggests two ages of porphyry with a sharp contact at 78.3'. | | |
| 89.6 | 106.9 | <u>ANDESITE.</u> Highly carbonated, light green in colour. Mineralized at several locations, narrow bands associated with whitish carbonates and containing a little sparse chalco. XXXXXX XXXX at 93.0' and 97.0 to 98.0'. END OF HOLE | | |

Logged by.....

Drill Hole LogDate Logged October 11/55.Hole Number 8-9.Sheet Number -2-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|--|---------------|-------|
| | 106.9 | 112.6 | <u>PORPHYRY DIKE.</u> | | |
| | 112.6 | 117.2 | <u>ANDESITE.</u> Slightly silicified. | | |
| | 117.2 | 133.9 | <u>PORPHYRY DIKE.</u> | | |
| | 133.9 | 134.4 | <u>FAULT ZONE (?)</u> Highly altered, carbonated, soft, black coloured fault material. | | |
| | 134.4 | 135.3 | <u>PORPHYRY DIKE.</u> | | |
| | 135.3 | 136.5 | <u>FAULT MATERIAL.</u> | | |
| | 136.5 | 150.5 | <u>BASALT.</u> | | |
| | 150.5 | 152.2 | <u>PORPHYRY DIKE.</u> | | |
| | 152.2 | 176.4 | <u>BRECCIA ZONE.</u> Predominately a fractured, somewhat altered grn. containing a number of large feldspatic inclusions A fair amount of dessiminated pyrrhotite from 160.0 - 163.0' with a little more scattered thro- out section. | | |
| | 176.4 | 178.9 | <u>SILICIFIED GREENSTONE.</u> | | |
| | 178.9 | 195.1 | <u>PORPHYRY DIKE.</u> | | |
| | 195.1 | 226.2 | <u>ANDESITE.</u> Fractured & silicified, highly carbonated, light green in colour containing scattered pyrite & pyrro. qtz. & carbonated stringers. Somewhat brecciated | | |

Logged by.....

Drill Hole Log

Date Logged..... Hole Number B-9. Sheet Number -3-

| CROSS SECTION | FROM | TO | DESCRIPTION | SAMPLE NUMBER | ASSAY |
|---------------|-------|-------|--|---------------|-------|
| | 195.1 | 226.2 | (continued.) from 200.0 to 210.0'. Scattered pyrrhotite from 200.0' to 225.0' with a few scattered patches of chalcopyrite. Section is well carbonated & silicified with minute stringers. Somewhat brecciated again from 215.0 - 220.0', more basaltic in appearance from 210. 225.0'. | | |
| | 226.2 | 233.0 | <u>PORPHYRY.</u> | | |
| | 233.0 | 250.0 | <u>BASALT.</u> Carbonated & silicified and containing a little mineral from 246.2 - 247.3'. | | |
| | 250.0 | 266.5 | <u>BRECCIATED GREENSTONE.</u> Fair amount of pyrite and a little chalcopyrite in clusters in this section. | | |
| | 266.5 | 268.0 | <u>PORPHYRY DIKE.</u> | | |
| | 268.0 | 300.0 | <u>ANDESITE.</u> Carbonated with a little pyrrhotite. Very highly altered, silicified & crushed from 290.0 - 296.0' This could xxx represent a fault zone. Contains a little pyrrhotite, no chalcopyrite. | | |
| | 300.0 | 320.0 | <u>BASALT.</u> Slightly silicified & altered. | | |
| | 320.0 | 350.0 | <u>SILICIFIED GREENSTONE.</u> Very highly silicified, fine grained, no mineral. | | |
| | 350.0 | 354.0 | <u>BRECCIA ZONE.</u> | | |
| | 354.0 | 356.0 | <u>BASALT.</u> END OF HOLE AT 356.0 | | |

Logged by..... R.H.B.