



**ALLEGIANCE MINING NL MELBA FLATS PROJECT DRILL HOLE MF 68**

| Project | Hole ID | Depth |       | Description  | Recovery |       |     | Assays |       |       |       |       |    |       |      |  |  |
|---------|---------|-------|-------|--|----------|-------|-----|--------|-------|-------|-------|-------|----|-------|------|--|--|
|         |         | From  | To    |  | From     | To    | %   | From   | To    | % Ni  | % Cu  | % S   | Ag | % Pb  | % Zn |  |  |
| Melba   | MF 68   | 0.0   | 17.0  | <b>WEATHERED SEDIMENTS:</b>  |          |       |     |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | orange colored, severely weathered medium grained sediments;       | 0.0      | 1.8   | 80  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | BCA 50°;   | 1.8      | 3.0   | 60  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | very soft, decomposed, but recoveries reasonable;                  | 3.0      | 4.0   | 70  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       |  | 4.0      | 5.0   | 60  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   | 17.0  | 19.0  | <b>WEATHERED GABBRO and MASSIVE SULFIDE RUBBLE:</b>                | 5.0      | 6.0   | 50  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | possible sharp HW contact with decomposed gabbro at                | 6.0      | 7.0   | 70  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | 17m: 70° CA; CAVITY REPORTED BY DRILLERS (workings?)               | 7.0      | 8.0   | 90  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | 17.0-17.8m: quartz and massive sulfide rubble- very poor core      | 8.0      | 9.0   | 90  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | recoveries (20%);  | 9.0      | 10.0  | 100 |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | 17.8-19.0m: broken, very weathered gabbro, and very poor core      | 10.0     | 11.0  | 90  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | recoveries;  | 11.0     | 12.0  | 80  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       |  | 12.0     | 14.0  | 100 |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   | 19.0  | 54.7  | <b>INTERBEDDED SILTSTONE-SANDSTONE-SHALE:</b>                      | 14.0     | 14.9  | 30  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | interbedded pale gray siltstone-mudstone and gray gritty           | 14.9     | 15.7  | 25  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | sandstone and dark gray shales;                                    | 15.7     | 16.3  | 0   |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | BCA 55°; slump to 35° at base of unit;                             | 16.3     | 17.0  | 20  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | some quartz veining in black shales between 38.0-41.5m;            | 17.0     | 17.8  | 10  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | vuggy nature to 41.5m evidence of water movement;                  | 17.8     | 19.0  | 10  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | core very broken and rubbly to 41.5m;                              | 19.0     | 19.8  | 40  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | 53.7m: 300mm light brown fine grained igneous (?) rock with        | 19.8     | 21.0  | 20  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | abundant white spotting;   | 21.0     | 22.0  | 20  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       |  | 22.0     | 22.9  | 10  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   | 54.7  | 67.0  | <b>GABBRO with QUARTZ-CARBONATE-SULFIDE VEINING on F</b>           | 22.9     | 23.5  | 60  | 54.7   | 55.7  | 0.12  | 0.05  | 0.31  | 6  | 0.04  | 0.07 |  |  |
| Melba   | MF 68   |       |       | 54.7-59.2m: strongly altered medium grained gabbro with minor      | 23.5     | 24.7  | 80  | 55.7   | 56.7  | 0.06  | 0.02  | <0.02 | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | seams of semi-massive sulfide in last 200mm.                       | 24.7     | 25.2  | 90  | 56.7   | 57.7  | 0.05  | 0.01  | <0.02 | 6  | <0.01 | 0.02 |  |  |
| Melba   | MF 68   |       |       | cut by numerous fine carbonate and quartz-carbonate veins;         | 25.2     | 26.2  | 100 | 57.7   | 58.7  | 0.04  | 0.01  | 0.02  | 8  | <0.01 | 0.02 |  |  |
| Melba   | MF 68   |       |       | broken and rubbly in places;                                       | 26.2     | 27.2  | 70  | 58.7   | 59.2  | 0.04  | 0.01  | 0.25  | 8  | 0.03  | 0.12 |  |  |
| Melba   | MF 68   |       |       | broken contact with....  | 27.2     | 28.0  | 30  | 59.2   | 60.9  | 0.01  | 0.02  | 3.99  | 72 | 4.42  | 6.29 |  |  |
| Melba   | MF 68   |       |       | 59.2-62.3m: veined and brecciated altered gabbro;                  | 28.0     | 29.6  | 50  | 60.9   | 61.6  | 0.02  | 0.01  | 0.97  | 15 | 0.47  | 1.84 |  |  |
| Melba   | MF 68   |       |       | clasts of light brown altered gabbro set in matrix of quartz-      | 29.6     | 30.7  | 80  | 61.6   | 62.3  | 0.01  | 0.01  | 2.22  | 18 | 1.01  | 3.63 |  |  |
| Melba   | MF 68   |       |       | carbonate-galena-sphalerite with numerous lesser quartz-           | 30.7     | 32.0  | 100 | 62.3   | 63.0  | <0.01 | 0.01  | 0.33  | 9  | 0.42  | 0.39 |  |  |
| Melba   | MF 68   |       |       | carbonate-galena-sphalerite veins cutting altered gabbro sections; | 32.0     | 33.0  | 80  | 63.0   | 64.3  | 0.01  | <0.01 | 0.48  | 6  | 0.15  | 0.15 |  |  |
| Melba   | MF 68   |       |       | 62.3-64.3m: gray gritty sandstone extensively veined by quartz-    | 33.0     | 34.0  | 70  | 64.3   | 65.3  | <0.01 | 0.02  | 1.03  | 24 | 0.81  | 1.33 |  |  |
| Melba   | MF 68   |       |       | carbonate-galena-sphalerite-pyrite(?) veins;                       | 34.0     | 35.1  | 50  | 65.3   | 66.6  | <0.01 | <0.01 | 0.70  | 9  | 0.18  | 1.16 |  |  |
| Melba   | MF 68   |       |       | 64.3-66.6m: brecciated and veined sandstone with sandstone         | 35.1     | 36.0  | 70  | 66.6   | 67.0  | 0.02  | <0.01 | 0.12  | 4  | 0.05  | 0.19 |  |  |
| Melba   | MF 68   |       |       | clasts set in quartz and quartz-carbonate-galena-sphalerite-       | 36.0     | 37.0  | 80  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | pyrite matrix; sharp FW contact 60° CA;                            | 37.0     | 38.0  | 50  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | 66.6-67.0m: altered dark gray medium grained gabbro with minor     | 38.0     | 38.7  | 70  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | sedimentary beds (?) near FW;                                      | 38.7     | 39.8  | 90  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | sharp FW contact 70° CA;   | 39.8     | 40.9  | 80  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       |  | 40.9     | 41.4  | 80  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   | 67.0  | 97.1  | <b>HEMATITIC SEDIMENTS:</b>  | 41.4     | 43.0  | 85  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | interbedded reddish brown siltstones and sandstones;               | 43.0     | 57.3  | 100 |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | BCA 55-60°;  | 57.3     | 59.2  | 90  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | below 94.0m., BCA becomes erratic accompanied by increase in       | 59.2     | 61.0  | 90  |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | quartz and quartz-carbonate veins;                                 | 61.0     | 67.0  | 100 |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | ground conditions excellent;                                       | 67.0     | 97.1  | 100 |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | sharp contact with gabbro below 60° CA;                            |          |       |     |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   | 97.1  | 113.4 | <b>GABBRO:</b>   | 97.1     | 113.4 | 100 | 97.1   | 98.0  | 0.01  | <0.01 | 0.50  | 5  | 0.05  | 0.43 |  |  |
| Melba   | MF 68   |       |       | 97.1-99.3m: very altered fine-medium grained gabbro cut by         |          |       |     | 98.0   | 99.0  | 0.05  | 0.01  | 0.04  | 4  | 0.01  | 0.04 |  |  |
| Melba   | MF 68   |       |       | numerous quartz-carbonate-pyrite-galena-sphalerite veins;          |          |       |     | 99.0   | 100.0 | 0.03  | 0.01  | 0.11  | 3  | 0.02  | 0.08 |  |  |
| Melba   | MF 68   |       |       | 97.5m: 300mm vein of colofom quartz-carbonate;                     |          |       |     | 100.0  | 101.0 | 0.02  | 0.01  | 0.02  | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | 99.3-113.4m: dark gray medium-coarse grained gabbro cut by         |          |       |     | 101.0  | 102.0 | 0.02  | 0.01  | 0.07  | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | occasional quartz-carbonate veins;                                 |          |       |     | 102.0  | 103.0 | 0.02  | 0.01  | 0.02  | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | minor fine grained disseminated sulfides;                          |          |       |     | 103.0  | 104.0 | 0.02  | <0.01 | 0.13  | 3  | <0.01 | 0.04 |  |  |
| Melba   | MF 68   |       |       | ground conditions excellent;                                       |          |       |     | 104.0  | 105.0 | 0.04  | <0.01 | 0.15  | 4  | <0.01 | 0.06 |  |  |
| Melba   | MF 68   |       |       | sharp contact with sediments below 85° CA;                         |          |       |     | 105.0  | 106.0 | 0.03  | 0.01  | 0.03  | 4  | <0.01 | 0.02 |  |  |
| Melba   | MF 68   |       |       |  |          |       |     | 106.0  | 107.0 | 0.10  | 0.06  | 0.22  | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   | 113.4 | 120.0 | <b>SEDIMENTS:</b>  | 113.4    | 120.0 | 100 | 107.0  | 108.0 | 0.14  | 0.12  | 0.31  | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | light gray-light brown bleached and altered fine grained           |          |       |     | 108.0  | 109.0 | 0.15  | 0.10  | 0.74  | 5  | 0.14  | 0.32 |  |  |
| Melba   | MF 68   |       |       | sediments; brecciation common in lower half, accompanied by        |          |       |     | 109.0  | 110.0 | 0.13  | 0.10  | 0.33  | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | quartz-carbonate and quartz-carbonate sulfide veining;             |          |       |     | 110.0  | 111.0 | 0.04  | 0.01  | 0.04  | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | 118.7m: 300mm quartz-carbonate-sulfide vein                        |          |       |     | 111.0  | 112.0 | 0.05  | 0.02  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       |  |          |       |     | 112.0  | 113.4 | 0.03  | 0.01  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   | 120.0 | 122.8 | <b>GABBRO:</b>   | 120.0    | 122.8 | 100 |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | dark gray medium grained gabbro with irregular FW and HW           |          |       |     | 116.5  | 117.5 | <0.01 | <0.01 | 0.95  | 4  | 0.03  | 0.09 |  |  |
| Melba   | MF 68   |       |       | contacts; FW contact 30° CA and marked by narrow white             |          |       |     | 117.5  | 118.7 | 0.01  | <0.01 | 0.52  | 3  | 0.04  | 0.06 |  |  |
| Melba   | MF 68   |       |       | carbonate vein;  |          |       |     | 118.7  | 119.0 | <0.01 | <0.01 | 1.15  | 4  | 0.03  | 1.34 |  |  |
| Melba   | MF 68   |       |       | only trace disseminated sulfides;                                  |          |       |     | 119.0  | 120.0 | 0.01  | <0.01 | 1.10  | 4  | 0.07  | 0.03 |  |  |
| Melba   | MF 68   |       |       |  |          |       |     | 120.0  | 121.0 | 0.02  | <0.01 | <0.02 | 4  | <0.01 | 0.02 |  |  |
| Melba   | MF 68   | 122.8 | 141.8 | <b>SEDIMENTS:</b>  | 122.8    | 141.8 | 100 | 121.0  | 122.0 | 0.01  | 0.01  | <0.02 | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | 122.8-130.3m: hematitic siltstone and sandstone; grading up        |          |       |     | 122.0  | 122.8 | 0.02  | 0.01  | <0.02 | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | hole; BCA 60°;   |          |       |     |        |       |       |       |       |    |       |      |  |  |
| Melba   | MF 68   |       |       | 130.3-141.8m: dark gray interbedded sandstone and siltstone        |          |       |     | 141.8  | 143.0 | 0.02  | 0.02  | <0.02 | 4  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | cut by common thin quartz-carbonate-galena-sphalerite veins;       |          |       |     | 143.0  | 144.0 | 0.02  | 0.01  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | BCA 50°;   |          |       |     | 144.0  | 145.0 | 0.02  | 0.01  | 0.29  | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | ground conditions good;  |          |       |     | 145.0  | 146.0 | 0.02  | 0.01  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | sharp 70° contact with gabbro below;                               |          |       |     | 146.0  | 147.0 | 0.02  | 0.01  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       |  |          |       |     | 147.0  | 148.0 | 0.02  | 0.01  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   | 141.8 | 163.6 | <b>GABBRO:</b>   | 141.8    | 144.5 | 100 | 148.0  | 149.0 | 0.02  | 0.01  | <0.02 | 3  | <0.01 | 0.01 |  |  |
| Melba   | MF 68   |       |       | dark gray medium-coarse grained with irregular low angled          | 1        |       |     |        |       |       |       |       |    |       |      |  |  |

