AM-88-378

cd. 1 of 1

Asisite, a silicon-bearing lead oxychloride from the Kombat mine, South West Africa (Namibia)

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For deposit: Table 5

American Mineralogist, 73, 5-6, 643-650. pp. (3)

TABLE 5. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR ASISITE.

| H | K | L | FO | FC | A | B | PHI | DEL(F) | SIG*(F) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 417.18 | 431.08 | 425.79 | 67.32 | 8.98 | -13.90 | 0.84 |
| 0 | 2 | 0 | 409.62 | 429.13 | 424.35 | 63.90 | 8.56 | -19.51 | 0.63 |
| 2 | 2 | 0 | 328.85 | 328.06 | 322.99 | 57.44 | 10.08 | 0.80 | 1.11 |
| 1 | 3 | 0 | 270.69 | 274.49 | 269.04 | 54.43 | 11.44 | -3.80 | 0.65 |
| 3 | 3 | 0 | 190.16 | 190.62 | 185.47 | 44.03 | 13.35 | -0.46 | 1.44 |
| 0 | 4 | 0 | 207.94 | 215.44 | 210.37 | 46.44 | 12.45 | -7.50 | 0.99 |
| 2 | 4 | 0 | 184.73 | 179.84 | 174.93 | 41.77 | 13.43 | 4.89 | 0.84 |
| 1 | 2 | 1 | 117.59 | 113.84 | 111.81 | 21.40 | 10.83 | 3.75 | 0.85 |
| 0 | 3 | 1 | 88.61 | 92.91 | 90.90 | 19.25 | 11.96 | -4.30 | 1.09 |
| 2 | 3 | 1 | 80.75 | 77.26 | 75.30 | 17.32 | 12.95 | 3.49 | 0.84 |
| 1 | 4 | 1 | 67.68 | 65.16 | 63.27 | 15.57 | 13.83 | 2.52 | 1.24 |
| 3 | 4 | 1 | 50.13 | 47.56 | 45.86 | 12.58 | 15.34 | 2.57 | 1.74 |
| 0 | 5 | 1 | 48.77 | 47.56 | 45.86 | 12.58 | 15.34 | 1.21 | 2.45 |
| 1 | 1 | 2 | 7.95 | 9.29 | 8.79 | -2.99 | 341.24 | -1.34 | 7.22 |
| 0 | 2 | 2 | 19.17 | 9.78 | -9.35 | -2.90 | 197.21 | 9.39 | 3.80 |
| 2 | 2 | 2 | 9.24 | 8.97 | -8.56 | -2.68 | 197.38 | 0.27 | 8.42 |
| 1 | 3 | 2 | 10.54 | 4.70 | -3.93 | -2.57 | 213.11 | 5.85 | 4.84 |
| 3 | 3 | 2 | 11.40 | 5.76 | -5.34 | -2.18 | 202.18 | 5.64 | 10.41 |
| 0 | 4 | 2 | 11.32 | 7.41 | -7.05 | -2.27 | 197.87 | 3.91 | 7.40 |
| 2 | 4 | 2 | 13.00 | 6.78 | -6.45 | -2.09 | 197.94 | 6.22 | 6.02 |
| 1 | 2 | 3 | 139.31 | 117.91 | 115.80 | 22.23 | 10.86 | 21.39 | 0.90 |
| 0 | 3 | 3 | 104.70 | 96.58 | 94.47 | 20.06 | 11.99 | 8.13 | 1.07 |
| 2 | 3 | 3 | 80.08 | 80.59 | 78.54 | 18.09 | 12.97 | -0.52 | 0.90 |
| 1 | 4 | 3 | 62.19 | 68.19 | 66.21 | 16.32 | 13.84 | -6.00 | 1.27 |
| 3 | 4 | 3 | 44.35 | 50.07 | 48.28 | 13.26 | 15.36 | -5.72 | 1.73 |
| 0 | 5 | 3 | 38.03 | 50.07 | 48.28 | 13.26 | 15.36 | -12.04 | 3.33 |
| 1 | 1 | 4 | 29.95 | 40.33 | -37.98 | -13.58 | 199.67 | -10.38 | 1.84 |
| 0 | 2 | 4 | 82.03 | 84.79 | -83.79 | -12.95 | 188.79 | -2.76 | 0.85 |
| 2 | 2 | 4 | 63.48 | 63.62 | -62.54 | -11.66 | 190.56 | -0.13 | 1.82 |
| 1 | 3 | 4 | 35.37 | 41.84 | -40.35 | -11.04 | 195.30 | -6.47 | 1.54 |
| 3 | 3 | 4 | 41.57 | 33.04 | -31.81 | -8.95 | 195.71 | 8.53 | 3.19 |
| 0 | 4 | 4 | 46.98 | 41.52 | -40.43 | -9.45 | 193.15 | 5.46 | 2.13 |
| 2 | 4 | 4 | 40.63 | 34.82 | -33.76 | -8.50 | 194.13 | 5.82 | 1.81 |
| 0 | 1 | 5 | 427.83 | 451.17 | -446.70 | -63.34 | 188.07 | -23.34 | 0.58 |
| 1 | 2 | 5 | 353.48 | 338.01 | -333.18 | -56.94 | 189.70 | 15.47 | 0.57 |
| 0 | 3 | 5 | 275.93 | 268.97 | -264.05 | -51.20 | 190.97 | 6.96 | 0.85 |
| 2 | 3 | 5 | 226.53 | 220.01 | -215.13 | -46.04 | 192.08 | 6.53 | 0.67 |
| 1 | 4 | 5 | 181.00 | 183.16 | -178.42 | -41.40 | 193.06 | -2.17 | 0.74 |
| 1 | 1 | 6 | 162.70 | 157.69 | -155.81 | -24.31 | 188.87 | 5.01 | 0.75 |
| 0 | 2 | 6 | 105.66 | 109.44 | -107.00 | -23.01 | 192.14 | -3.79 | 0.78 |
| 2 | 2 | 6 | 94.96 | 93.47 | -91.15 | -20.70 | 192.80 | 1.49 | 1.34 |
| 1 | 3 | 6 | 91.43 | 96.09 | -94.05 | -19.66 | 191.80 | -4.66 | 0.75 |
| 3 | 3 | 6 | 67.35 | 66.35 | -64.42 | -15.88 | 193.85 | 1.00 | 1.97 |
| 0 | 4 | 6 | 61.80 | 67.99 | -65.90 | -16.74 | 194.25 | -6.19 | 1.67 |
| 2 | 4 | 6 | 52.83 | 58.39 | -56.41 | -15.05 | 194.93 | -5.56 | 1.51 |
| 0 | 1 | 7 | 96.03 | 111.08 | -110.19 | -14.04 | 187.26 | -15.06 | 0.89 |
| 1 | 2 | 7 | 74.20 | 80.89 | -79.91 | -12.54 | 188.92 | -6.69 | 0.71 |
| 0 | 3 | 7 | 65.52 | 63.07 | -62.07 | -11.20 | 190.23 | 2.44 | 1.17 |
| 2 | 3 | 7 | 57.49 | 50.72 | -49.72 | -10.01 | 191.39 | 6.77 | 1.28 |
| 1 | 4 | 7 | 51.72 | 41.58 | -40.60 | -8.96 | 192.44 | 10.14 | 1.34 |
| 1 | 1 | 8 | 288.21 | 268.24 | -264.64 | -43.76 | 189.39 | 19.98 | 0.74 |
| 0 | 2 | 8 | 232.66 | 215.52 | -211.49 | -41.50 | 191.10 | 17.14 | 0.76 |
| 2 | 2 | 8 | 183.72 | 178.23 | -174.26 | -37.39 | 192.11 | 5.49 | 1.12 |
| 1 | 3 | 8 | 163.53 | 170.62 | -166.89 | -35.51 | 192.01 | -7.09 | 0.65 |
| 3 | 3 | 8 | 118.21 | 119.52 | -116.00 | -28.80 | 193.94 | -1.31 | 1.45 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 4 | 8 | 108.10 | 126.53 | -122.84 | -30.34 | 193.87 | -18.43 | 1.16 |
| 2 | 4 | 8 | 91.84 | 108.04 | -104.53 | -27.32 | 194.65 | -16.20 | 1.09 |
| 0 | 1 | 9 | 27.52 | 21.15 | -21.14 | -0.65 | 181.77 | 6.36 | 2.66 |
| 1 | 2 | 9 | 16.40 | 12.87 | -12.86 | -0.55 | 182.43 | 3.53 | 3.64 |
| 0 | 3 | 9 | 21.61 | 8.71 | -8.70 | -0.46 | 183.03 | 12.90 | 3.72 |
| 2 | 3 | 9 | 27.12 | 6.14 | -6.13 | -0.39 | 183.66 | 20.98 | 3.34 |
| 1 | 4 | 9 | 26.47 | 4.42 | -4.40 | -0.34 | 184.37 | 22.05 | 2.79 |
| 1 | 1 | 10 | 322.97 | 306.44 | 302.92 | 46.31 | 8.69 | 16.53 | 0.78 |
| 0 | 2 | 10 | 260.06 | 239.43 | 235.38 | 43.86 | 10.56 | 20.63 | 0.85 |
| 2 | 2 | 10 | 212.42 | 195.75 | 191.74 | 39.44 | 11.62 | 16.67 | 0.95 |
| 1 | 3 | 10 | 187.65 | 188.86 | 185.11 | 37.43 | 11.43 | -1.21 | 0.65 |
| 3 | 3 | 10 | 130.96 | 129.64 | 126.05 | 30.28 | 13.51 | 1.33 | 1.55 |
| 0 | 4 | 10 | 127.93 | 136.74 | 132.96 | 31.91 | 13.50 | -8.81 | 1.08 |
| 2 | 4 | 10 | 104.37 | 115.96 | 112.35 | 28.71 | 14.33 | -11.60 | 1.07 |
| 0 | 1 | 11 | 88.48 | 83.94 | 82.31 | 16.49 | 11.33 | 4.54 | 1.28 |
| 1 | 2 | 11 | 67.49 | 69.35 | 67.74 | 14.83 | 12.35 | -1.86 | 1.02 |
| 0 | 3 | 11 | 55.46 | 58.03 | 56.48 | 13.33 | 13.28 | -2.56 | 1.73 |
| 2 | 3 | 11 | 44.00 | 49.16 | 47.67 | 11.98 | 14.11 | -5.16 | 2.01 |
| 1 | 4 | 11 | 35.62 | 42.01 | 40.61 | 10.77 | 14.85 | -6.38 | 2.14 |
| 0 | 0 | 12 | 162.33 | 152.87 | 151.10 | 23.16 | 8.71 | 9.47 | 1.37 |
| 1 | 1 | 12 | 139.11 | 138.30 | 136.55 | 21.93 | 9.12 | 0.81 | 0.93 |
| 0 | 2 | 12 | 117.42 | 118.43 | 116.60 | 20.75 | 10.09 | -1.01 | 1.09 |
| 2 | 2 | 12 | 97.58 | 95.16 | 93.33 | 18.59 | 11.26 | 2.41 | 1.14 |
| 1 | 3 | 12 | 92.61 | 87.37 | 85.57 | 17.60 | 11.62 | 5.24 | 0.87 |
| 3 | 3 | 12 | 73.47 | 60.06 | 58.37 | 14.15 | 13.62 | 13.41 | 2.01 |
| 0 | 4 | 12 | 67.63 | 65.03 | 63.29 | 14.94 | 13.28 | 2.60 | 1.51 |
| 2 | 4 | 12 | 71.19 | 54.69 | 53.02 | 13.40 | 14.18 | 16.50 | 1.35 |
| 0 | 1 | 13 | 349.28 | 319.89 | 314.52 | 58.37 | 10.51 | 29.39 | 1.09 |
| 1 | 2 | 13 | 284.58 | 259.39 | 254.01 | 52.56 | 11.69 | 25.19 | 0.75 |
| 0 | 3 | 13 | 226.15 | 214.94 | 209.66 | 47.32 | 12.72 | 11.21 | 1.04 |
| 2 | 3 | 13 | 178.90 | 180.79 | 175.70 | 42.60 | 13.63 | -1.90 | 0.84 |
| 1 | 4 | 13 | 146.10 | 153.61 | 148.75 | 38.34 | 14.45 | -7.51 | 0.85 |
| 0 | 0 | 14 | 127.29 | 119.39 | 118.41 | 15.27 | 7.35 | 7.90 | 1.45 |
| 1 | 1 | 14 | 76.10 | 75.87 | 74.49 | 14.41 | 10.95 | 0.23 | 1.21 |
| 0 | 2 | 14 | 88.76 | 87.74 | 86.67 | 13.68 | 8.97 | 1.02 | 1.40 |
| 2 | 2 | 14 | 70.96 | 68.15 | 67.04 | 12.25 | 10.36 | 2.81 | 1.41 |
| 1 | 3 | 14 | 46.95 | 52.98 | 51.70 | 11.58 | 12.62 | -6.03 | 1.60 |
| 3 | 3 | 14 | 23.46 | 37.80 | 36.63 | 9.32 | 14.27 | -14.34 | 6.30 |
| 0 | 4 | 14 | 49.84 | 44.78 | 43.68 | 9.85 | 12.71 | 5.06 | 2.26 |
| 0 | 1 | 15 | 183.62 | 153.82 | -151.56 | -26.29 | 189.84 | 29.79 | 1.40 |
| 1 | 2 | 15 | 133.90 | 123.09 | -120.80 | -23.64 | 191.07 | 10.81 | 0.99 |
| 0 | 3 | 15 | 104.84 | 100.94 | -98.68 | -21.26 | 192.16 | 3.89 | 1.47 |
| 2 | 3 | 15 | 84.84 | 84.11 | -81.90 | -19.13 | 193.15 | 0.74 | 1.23 |
| 1 | 4 | 15 | 72.55 | 70.86 | -68.74 | -17.21 | 194.06 | 1.69 | 1.25 |
| 0 | 0 | 16 | 10.72 | 3.99 | 3.93 | -0.67 | 350.30 | 6.73 | 9.73 |
| 1 | 1 | 16 | 24.81 | 9.71 | 9.69 | -0.63 | 356.30 | 15.11 | 3.45 |
| 0 | 2 | 16 | 25.21 | 2.62 | 2.54 | -0.61 | 346.59 | 22.60 | 4.12 |
| 2 | 2 | 16 | 21.16 | 1.66 | 1.57 | -0.54 | 340.99 | 19.51 | 4.78 |
| 1 | 3 | 16 | 23.85 | 3.37 | 3.33 | -0.50 | 351.44 | 20.48 | 3.62 |
| 0 | 4 | 16 | 12.87 | 0.58 | 0.40 | -0.42 | 313.68 | 12.29 | 8.33 |
| 0 | 1 | 17 | 128.04 | 119.48 | -117.57 | -21.27 | 190.25 | 8.57 | 1.75 |
| 1 | 2 | 17 | 102.64 | 96.24 | -94.34 | -19.06 | 191.42 | 6.39 | 1.18 |
| 0 | 3 | 17 | 83.76 | 79.12 | -77.25 | -17.09 | 192.47 | 4.64 | 1.80 |
| 2 | 3 | 17 | 73.56 | 65.94 | -64.13 | -15.32 | 193.44 | 7.62 | 1.45 |
| 1 | 4 | 17 | 58.42 | 55.50 | -53.77 | -13.75 | 194.34 | 2.92 | 1.68 |
| 0 | 0 | 18 | 337.76 | 323.72 | -317.47 | -63.28 | 191.27 | 14.04 | 1.28 |
| 1 | 1 | 18 | 272.90 | 280.40 | -273.90 | -60.01 | 192.36 | -7.50 | 1.00 |
| 0 | 2 | 18 | 264.92 | 265.46 | -259.28 | -56.96 | 192.39 | -0.54 | 1.27 |
| 2 | 2 | 18 | 214.31 | 221.82 | -215.82 | -51.27 | 193.36 | -7.51 | 1.04 |
| 1 | 3 | 18 | 185.54 | 199.66 | -193.65 | -48.63 | 194.10 | -14.12 | 0.94 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 19 | 134.57 | 124.90 | -122.63 | -23.73 | 190.95 | 9.67 | 1.35 |
| 1 | 2 | 19 | 103.04 | 101.98 | -99.73 | -21.29 | 192.05 | 1.06 | 1.15 |
| 0 | 3 | 19 | 80.20 | 84.62 | -82.43 | -19.10 | 193.05 | -4.42 | 2.14 |
| 2 | 3 | 19 | 66.18 | 71.01 | -68.91 | -17.14 | 193.97 | -4.83 | 1.50 |
| 0 | 0 | 20 | 54.89 | 40.94 | 40.56 | 5.53 | 7.76 | 13.95 | 2.12 |
| 1 | 1 | 20 | 28.40 | 28.01 | 27.51 | 5.22 | 10.75 | 0.39 | 3.37 |
| 0 | 2 | 20 | 32.53 | 31.32 | 30.93 | 4.97 | 9.13 | 1.21 | 6.53 |
| 2 | 2 | 20 | 34.31 | 24.74 | 24.33 | 4.48 | 10.43 | 9.57 | 2.91 |
| 1 | 3 | 20 | 29.07 | 19.42 | 18.95 | 4.24 | 12.63 | 9.66 | 4.69 |
| 0 | 1 | 21 | 86.50 | 91.62 | -89.82 | -18.04 | 191.35 | -5.11 | 1.55 |
| 1 | 2 | 21 | 71.70 | 75.45 | -73.69 | -16.22 | 192.41 | -3.76 | 1.48 |
| 0 | 3 | 21 | 54.43 | 63.00 | -61.29 | -14.59 | 193.39 | -8.57 | 3.39 |
| 0 | 0 | 22 | 59.44 | 68.22 | 67.06 | 12.53 | 10.58 | -8.78 | 2.30 |
| 1 | 1 | 22 | 41.02 | 57.45 | 56.22 | 11.84 | 11.90 | -16.43 | 2.78 |
| 0 | 2 | 22 | 69.26 | 55.10 | 53.95 | 11.22 | 11.74 | 14.16 | 2.77 |
| 2 | 2 | 22 | 53.33 | 45.29 | 44.16 | 10.05 | 12.82 | 8.04 | 2.08 |
| 1 | 3 | 22 | 44.47 | 39.86 | 38.71 | 9.51 | 13.80 | 4.61 | 4.35 |
| 0 | 1 | 23 | 232.03 | 234.96 | 228.59 | 54.33 | 13.37 | -2.94 | 1.08 |
| 1 | 2 | 23 | 196.81 | 199.19 | 193.10 | 48.91 | 14.21 | -2.39 | 0.94 |
| 0 | 3 | 23 | 169.87 | 170.18 | 164.38 | 44.03 | 14.99 | -0.30 | 1.75 |
| 0 | 0 | 24 | 102.10 | 114.69 | 111.88 | 25.22 | 12.70 | -12.59 | 1.84 |
| 1 | 1 | 24 | 105.47 | 110.06 | 107.43 | 23.90 | 12.54 | -4.59 | 1.44 |
| 0 | 2 | 24 | 92.55 | 96.22 | 93.52 | 22.63 | 13.60 | -3.68 | 2.14 |
| 2 | 2 | 24 | 77.39 | 81.37 | 78.80 | 20.30 | 14.45 | -3.98 | 1.78 |
| 0 | 1 | 25 | 52.51 | 37.36 | 35.96 | 10.11 | 15.70 | 15.15 | 2.09 |
| 1 | 2 | 25 | 39.76 | 32.52 | 31.22 | 9.08 | 16.22 | 7.25 | 2.60 |
| 0 | 0 | 26 | 135.18 | 153.70 | 149.61 | 35.20 | 13.24 | -18.52 | 1.65 |
| 1 | 1 | 26 | 125.02 | 141.10 | 137.09 | 33.38 | 13.69 | -16.08 | 1.33 |
| 0 | 2 | 26 | 115.87 | 129.57 | 125.64 | 31.66 | 14.14 | -13.70 | 1.64 |
| 0 | 1 | 27 | 12.59 | 2.70 | -2.64 | 0.56 | 167.93 | 9.89 | 8.10 |
| 0 | 0 | 28 | 128.98 | 155.45 | -150.15 | -40.25 | 195.01 | -26.47 | 1.75 |
| 1 | 1 | 28 | 126.18 | 146.77 | -141.71 | -38.21 | 195.09 | -20.59 | 1.33 |