

**Metadata**

Tm: melting temp.      Behavior: to a liquid, to a vapor

Th: Homogenization temp.

Type: Primary (P), pseudosecondary (PS), secondary (S)

**Table 1.** Collection of fluid inclusion petrographic and microthermometric observations

| Sample    | Mineral  | TmIce (°C) | TmCO2 | TmCl (°C) | ThCO2 (°C) | Teut (°C) | ThTot (°C) | Assemblage | Type | Behavior (V,L) | Vapor Bubble % |
|-----------|----------|------------|-------|-----------|------------|-----------|------------|------------|------|----------------|----------------|
| T19H-ADL  | Adularia | -1.2       |       |           |            |           | 227.1      | LV         | P    | L              | 30             |
| T19H-ADL  | Adularia | -1.2       |       |           |            |           | 218.5      | LV         | P    | L              | 20             |
| T19H-ADL  | Adularia | -1.2       |       |           |            |           | 218.5      | LV         | P    | L              | 10             |
| T19H-ADL  | Adularia | -1.2       |       |           |            |           | 218.5      | LV         | P    | L              | 15             |
| T19H-ADL  | Adularia | -1.2       |       |           |            |           | 218.5      | LV         | P    | L              | 10             |
| T19H-ADL  | Adularia | -1.5       |       |           |            |           | 222.4      | LV         | P    | L              | 20             |
| T19H-ADL  | Adularia | -1.5       |       |           |            |           | 215.6      | LV         | P    | L              | 15             |
| T19H-ADL  | Adularia | -1.5       |       |           |            |           | 215.6      | LV         | P    | L              | 15             |
| T19H-ADL  | Adularia | -1.5       |       |           |            |           | 215.6      | LV         | P    | L              | 20             |
| T19H-ADL  | Adularia | -1.7       |       |           |            |           | 215.6      | LV         | P    | L              | 20             |
| T19H-ADL  | Adularia | -1.9       |       |           |            |           | 229.4      | LV         | P    | L              | 30             |
| T19H-ADL  | Adularia | -2         |       |           |            |           | 229.4      | LV         | P    | L              | 30             |
| T19H-Q-01 | Quartz   | -1.3       |       |           |            |           | 198.8      | LV         | PS   | L              | 10             |
| T19H-Q-01 | Quartz   | -1.3       |       |           |            |           | 198.8      | LV         | PS   | L              | 10             |
| T19H-Q-01 | Quartz   | -1.3       |       |           |            |           | 198.8      | LV         | PS   | L              | 10             |
| T19H-Q-02 | Quartz   | -0.2       |       |           |            |           | 210.1      | LV         | PS   | L              | 10             |
| T19H-Q-02 | Quartz   | -0.2       |       |           |            |           | 210.1      | LV         | PS   | L              | 15             |
| T19H-Q-02 | Quartz   | -0.2       |       |           |            |           | 210.1      | LV         | PS   | L              | 10             |
| T19H-Q-02 | Quartz   | -0.2       |       |           |            |           | 210.1      | LV         | PS   | L              | 15             |
| T19H-Q-02 | Quartz   | -0.3       |       |           |            |           | 210.1      | LV         | PS   | L              | 10             |
| T19H-Q-03 | Quartz   | -0.3       |       |           |            |           | 220.3      | LV         | P    | L              | 10             |
| T19H-Q-03 | Quartz   | -0.2       |       |           |            |           | 213.1      | LV         | P    | L              | 15             |
| T19H-Q-03 | Quartz   | -0.2       |       |           |            |           | 213.1      | LV         | P    | L              | 15             |
| T19H-Q-03 | Quartz   | -0.2       |       |           |            |           | 213.1      | LV         | P    | L              | 15             |
| T19H-Q-03 | Quartz   | -0.3       |       |           |            |           | 220.3      | LV         | P    | L              | 10             |
| T19H-Q-03 | Quartz   | -0.2       |       |           |            |           | 213.1      | LV         | P    | L              | 15             |
| T19H-Q-03 | Quartz   | -0.2       |       |           |            |           | 213.1      | LV         | P    | L              | 15             |
| T19H-Q-03 | Quartz   | -0.2       |       |           |            |           | 213.1      | LV         | P    | L              | 15             |
| S1-A-01   | Quartz   |            | -57.2 | 8.1       | 29.5       | 29.5      | 293        | LVV        | PS   | L              | 60             |
| S1-A-01   | Quartz   |            | -57.2 | 8.1       | 29.5       | 29.5      | 290.3      | LVV        | PS   | L              | 35             |
| S1-A-01   | Quartz   |            | -57.2 | 8.1       | 29.5       | 29.5      | 290.3      | LVV        | PS   | L              | 35             |
| S1-A-01   | Quartz   |            | -57.2 | 8.1       | 29.5       | 29.5      | 290.3      | LVV        | PS   | L              | 35             |
| S1-A-01   | Quartz   |            | -57.2 | 8.1       | 29.5       | 29.5      | 290.3      | LVV        | PS   | L              | 35             |
| S1-A-01   | Quartz   |            | -57.2 | 8.1       | 29.5       | 29.5      | 290.3      | LVV        | PS   | L              | 35             |
| S1-A-02   | Quartz   |            | -50.1 | 7.5       | 29.8       | 29.8      | 347        | LVV        | P    | L              | 80             |
| S1-A-02   | Quartz   |            | -50.1 | 7.5       | 29.8       | 29.8      | 348.3      | LVV        | P    | L              | 80             |
| S1-A-02   | Quartz   |            | -50.1 | 4.7       | 29.8       | 29.8      | 348.3      | LVV        | P    | L              | 50             |
| S1-A-03   | Quartz   |            | -59.2 | 9         | 30.6       | 30.6      | 304.9      | LVV        | P    | L              | 55             |
| S1-A-04   | Quartz   |            | -57.4 | 9.5       | 27.3       | 27.3      | 335.5      | LVV        | P    | L              | 85             |
| S1-A-04   | Quartz   |            | -57.4 | 9.5       | 27.3       | 27.3      | 335.5      | LVV        | P    | L              | 65             |
| S1-A-05   | Quartz   |            | -58.1 | 9.6       | 30.1       | 30.1      | 299.5      | LVV        | P    | L              | 30             |
| S1-A-05   | Quartz   |            | -58.1 | 9.6       | 30.1       | 30.1      | 299.5      | LVV        | P    | L              | 35             |
| S1-A-05   | Quartz   |            | -58.1 | 9.6       | 30.1       | 30.1      | 299.5      | LVV        | P    | L              | 30             |
| S1-A-05   | Quartz   |            | -58.1 | 9.6       | 30.1       | 30.1      | 299.5      | LVV        | P    | L              | 30             |
| S1-A-06   | Quartz   |            | -57.6 | 8.2       | 30.1       | 30.1      | 301        | LVV        | PS   | L              | 40             |
| S1-A-06   | Quartz   |            | -57.6 | 8.2       | 30.1       | 30.1      | 301        | LVV        | PS   | L              | 40             |
| S1-A-06   | Quartz   |            | -57.6 | 8.2       | 30.1       | 30.1      | 301        | LVV        | PS   | L              | 40             |
| S1-A-06   | Quartz   |            | -57.6 | 8.2       | 30.1       | 30.1      | 301        | LVV        | PS   | L              | 40             |
| S1-A-06   | Quartz   |            | -57.5 | 9         | 30.1       | 30.1      | 304.4      | LVV        | P    | L              | 50             |
| S1-A-06   | Quartz   |            | -57.5 | 9         | 30.1       | 30.1      | 301.1      | LVV        | P    | L              | 60             |
| S1-A-06   | Quartz   |            | -57.5 | 9         | 30.1       | 30.1      | 301.1      | LVV        | P    | L              | 60             |
| S1-A-06   | Quartz   |            | -57.5 | 9         | 30.1       | 30.1      | 301.1      | LVV        | P    | L              | 60             |
| S1-A-07   | Quartz   |            | -58.4 | 9.4       | 30.9       | 30.9      | 299.8      | LVV        | PS   | L              | 40             |
| S1-A-07   | Quartz   |            | X     | 8.8       | 26         | 26        | 310.3      | LVV        | PS   | L              | 50             |
| S1-A-08   | Quartz   |            | -58.7 | 9.2       | 30         | 30        | 301.1      | LVV        | PS   | L              | 35             |
| S1-A-08   | Quartz   |            | -58.7 | 9.2       | 30         | 30        | 301.1      | LVV        | PS   | L              | 35             |
| S1-B-01   | Quartz   | -1.9       |       |           |            |           | 338.3      | LV         | P    | L              | 50             |
| S1-B-01   | Quartz   | -1.9       |       |           |            |           | 338.3      | LV         | P    | L              | 50             |
| S1-B-01   | Quartz   | -1.9       |       |           |            |           | 338.3      | LV         | P    | L              | 55             |
| S1-B-02   | Quartz   |            | -57.3 | 7.5       | 29.9       | 29.9      | 302.7      | LVV        | S    | L              | 60             |
| S1-B-02   | Quartz   |            | -57.3 | 7.5       | 29.9       | 29.9      | 302.7      | LVV        | PS   | L              | 65             |
| S1-B-03   | Quartz   |            | -57.1 | 9         | 24.9       | 24.9      | 337.4      | LVV        | S    | L              | 70             |
| S1-B-03   | Quartz   |            | -57.1 | 9         | 24.9       | 24.9      | 337.4      | LVVS       | S    | L              | 60             |
| S1-B-07   | Quartz   |            | -57.3 | 9.3       | 30.9       | 30.9      | 333.4      | LVV        | PS   | L              | 80             |
| S1-B-07   | Quartz   |            | -57.3 | 9.3       | 30.9       | 30.9      | 333.4      | LVV        | PS   | L              | 60             |