

Ms 193SR-209, Table T2. Results of XRD analysis.

| Core, section, interval (cm) | Depth (mbsf) | Sample | Powder           | X-Ray analysis number | Alteration                    | Quartz | Cristobalite | Tridymite | K-feldspar* | Plagioclase† | Anhydrite | Pyrite | Chlorite | Illite | Pyrophyllite | Paragonite | Mixed-layer phyllosilicates | Others                            | Comments                                                                            |
|------------------------------|--------------|--------|------------------|-----------------------|-------------------------------|--------|--------------|-----------|-------------|--------------|-----------|--------|----------|--------|--------------|------------|-----------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| 193-1188A-                   |              |        |                  |                       |                               |        |              |           |             |              |           |        |          |        |              |            |                             |                                   |                                                                                     |
| SR-1, 38–40                  | 33.97        | PM002  | Drilled separate | 40                    | Weak                          |        |              |           |             |              |           |        |          |        |              |            |                             | Glass                             | Cores of perlite                                                                    |
| SR-1, 38–40                  | 33.97        | PM002  | Drilled separate | 41                    | Weak                          |        |              |           |             |              |           |        |          |        |              |            |                             | Glass                             | Margins of perlite                                                                  |
| SR-1, 38–40                  | 33.97        | PM002  | Drilled separate | 42                    | Weak                          |        |              |           |             |              |           |        |          |        |              |            | +                           | Glass                             | Pseudomatrix between perlite kernels                                                |
| 7R-1, 114–119                | 49.34        | PM005  | P003             | 102                   | Chlorite-pyrite               |        | ++           | (+)       |             |              | +         | +      | (+)      | +?     |              |            |                             |                                   | Broad peaks, basal spacing >10 Å, dioctahedral component                            |
| 7R-1, 114–119                | 49.34        | PM005  | P004             | 103                   | Pyrite-anhydrite              |        | ++           | (+)       |             |              | ++        | ++     |          |        |              |            | +                           |                                   | Broad peaks, basal spacing >10 Å, disordered mixed-layer, dioctahedral component    |
| 8R-1, 13–17                  | 58.03        | PM006  | P005             | 3                     | Pyrite-anhydrite              |        | ++           | +         |             |              | (+)       | +      |          |        |              |            | +                           |                                   | Broad band between 7 and 10 Å, muscovite?, pyrophyllite?                            |
| 8R-1, 13–17                  | 58.03        | PM006  | P006             | 4                     | Pyrite-anhydrite              |        | ++           | +         |             |              | (+)       | ++     |          |        |              |            | +                           |                                   | Broad band between 7 and 9 Å, muscovite?, pyrophyllite?                             |
| 8R-1, 13–17                  | 58.03        | PM006  | P071             | 147                   | Pyrite-anhydrite              |        | ++           | +         |             |              | (+)       | +      |          |        |              | +?         | +                           |                                   | Phyllosilicate problematic: bulge between 5°2θ and 10°2θ                            |
| 8R-1, 66–70                  | 58.56        | PM007  | P007             | 109                   | Chlorite-pyrite               |        | ++           |           |             |              | ++        | (+)    | +        | (+)    |              |            |                             | (+) Anatase                       | Muscovite is M1 polytype                                                            |
| 9R-1, 130–135                | 68.90        | PM008  | P008             | 2                     | Anhydrite-pyrite-pyrophyllite | +      | ++           |           |             |              | ++        | +      |          |        | +            | +          |                             | (+) Halite; + gypsum; (+) anatase | 2 phyllosilicate!                                                                   |
| 11R-1, 20–26                 | 87.10        | PM010  | P009             | 6                     | Pyrite-anhydrite              | ++     | ++           | +         |             |              | ++        |        |          | +      | ?            | ?          |                             | + Gypsum                          | Broad muscovite peak, potentially mixed layer?                                      |
| 11R-1, 20–26                 | 87.10        | PM010  | P010             | 7                     | Chlorite-pyrite               | +      | ++           |           |             | ++           | +         | ++     | ?(+)     |        |              |            | (+)                         | + Rutile                          | Broad band between 6 and 7 Å                                                        |
| 12R-2, 48–51                 | 98.55        | PM011  | P011             | 107                   | Weak                          | +      | ++           | (+)       |             | ++           |           | (+)    | (+)      |        |              |            |                             |                                   |                                                                                     |
| 12R-2, 48–51                 | 98.55        | PM011  | P069             | 108                   | Weak                          | +      | ++           |           |             | ++           |           |        | (+)      |        |              |            |                             |                                   |                                                                                     |
| 14R-1, 86–89                 | 116.86       | PM014  | P012             | 100                   | Anhydrite-pyrite-pyrophyllite |        |              |           |             |              | ++        | +      |          | +?     | +?           |            | +?                          | + Gypsum                          | Dioctahedral phyllosilicate with broad peaks                                        |
| 14R-1, 86–89                 | 116.86       | PM014  | P070             | 101                   | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | +         | (+)    |          |        |              | +?         |                             | + Anatase (+) halite              | One dioctahedral phyllosilicate with broad peaks (muscovite excluded)               |
| 14R-1, 105–108               | 117.27       | PM015  | P013             | 09                    | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        |        |          |        |              | +?         | ?+                          | Gypsum; (+) halite                | Broad peak between 8 and 10 Å                                                       |
| 14R-1, 105–108               | 117.27       | PM015  | P014             | 08                    | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        |        |          | ?(+)   |              | +?         | ?+                          | + Gypsum; (+) halite              | Separate of white clasts, broad peak between 8 and 10 Å                             |
| 16R-1, 139–143               | 136.79       | PM016  | Drilled separate | 10                    | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        |        | (+)      | +      |              |            |                             | (+) Gypsum; (+) Rutile            | Sharp muscovite peaks                                                               |
| 16R-1, 139–143               | 136.79       | PM016  | Drilled separate | 11                    | Chlorite-pyrite               | ++     |              |           | ++          |              |           | +      | (+)      |        |              |            |                             |                                   |                                                                                     |
| 17R-1, 24–28                 | 145.34       | PM018  | P015             | 12                    | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        | +      | (+)      | ?+     |              |            | +                           | + Gypsum                          | Broad peak: 8 to 9 Å                                                                |
| 19R-1, 41–46                 | 164.71       | PM020  | P016             | 104                   | Chlorite-pyrite               | ++     | +            | (+)       |             | +            |           | (+)    | +?       |        |              |            | +?                          |                                   | One trioctahedral phyllosilicate, smectite?                                         |
| 19R-1, 86–90                 | 165.16       | PM021  | P017             | 110                   | Weak                          |        | ++           |           |             | ++           | (+)       |        | (+)      |        |              |            |                             |                                   |                                                                                     |
| 20R-1, 95–102                | 174.85       | PM023  | P018             | 105                   | Chlorite-pyrite               | ++     |              |           |             | +            |           | +      |          |        |              |            |                             |                                   |                                                                                     |
| 20R-1, 95–102                | 174.85       | PM023  | P019             | 106                   | Chlorite-pyrite               | ++     |              |           |             | ++           | (+)       | +      |          |        |              |            | (+)                         |                                   | Smectite? Very broad peak at ~14 Å                                                  |
| 193-1188F-                   |              |        |                  |                       |                               |        |              |           |             |              |           |        |          |        |              |            |                             |                                   |                                                                                     |
| 6Z-1, 46–47                  | 233.56       | PM026  | P020             | 47                    | Weak                          |        | +            |           | +           |              |           |        | +        |        |              |            |                             |                                   | Spheroids, trace quartz                                                             |
| 6Z-1, 46–47                  | 233.56       | PM026  | P020             | 48                    | Weak                          | +      | +            |           |             |              | (+)       | +      | +        |        |              |            |                             |                                   | Groundmass, trace plagioclase                                                       |
| 8Z-1, 26                     | 236.46       | PM027  | P021             | 14                    | Pyrite-anhydrite              | ++     |              |           |             |              | +         | +      | (+)      | ?(+)   |              |            |                             |                                   |                                                                                     |
| 8Z-1, 26                     | 236.46       | PM027  | Drilled separate | 15                    | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        |        |          | ?+     | ?            | +          | +                           | (+) Rutile; (+) gypsum            | Broad peak: 9 to 10 Å                                                               |
| 9Z-1, 9–12                   | 237.80       | PM028  | Drilled separate | 45                    | Anhydrite-pyrite-pyrophyllite | +      |              |           |             |              | ++        |        |          | +      |              | +          |                             | (+) Gypsum; (+) halite            |                                                                                     |
| 9Z-1, 9–12                   | 237.80       | PM028  | Drilled separate | 46                    | Illite                        | ++     |              |           |             |              | +         |        |          | ++     |              |            |                             |                                   | Gray groundmass                                                                     |
| 13Z-1, 0–23                  | 241.40       | PM029  | P022             | 123                   | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        | +      |          | +      |              |            |                             | (+) Halite                        |                                                                                     |
| 13Z-1, 0–23                  | 241.40       | PM029  | P023             | 124                   | Pyrite-anhydrite              | ++     |              |           |             |              | (+)       | +      |          | +      |              |            |                             |                                   |                                                                                     |
| 19Z-1, 0–41                  | 268.67       | PM033  | P024             | 111                   | Pyrite-anhydrite              | ++     |              |           |             |              | +         | +      |          | +?     |              |            | +?                          |                                   | Dioctahedral phyllosilicate with broad peaks                                        |
| 23Z-2, 56–63                 | 288.66       | PM035  | P026             | 19                    | Anhydrite-pyrite-pyrophyllite | ++     |              |           |             |              | ++        | +      |          | +      |              |            |                             | (+) Rutile                        |                                                                                     |
| 23Z-2, 56–63                 | 288.66       | PM035  | P025             | 18                    | Chlorite-pyrite               | ++     |              |           |             |              | +         | (+)    | ++       | +      |              |            |                             | (+) Rutile; (+) gypsum            |                                                                                     |
| 30Z-1, 13–20                 | 318.23       | PM036  | P027             | 112                   | K-feldspar-illite             | ++     |              |           | + Ab        |              |           |        | (+)      | +      |              |            |                             | (+) Magnetite                     |                                                                                     |
| 34Z-1, 122–130               | 337.63       | PM037  | P028             | 20                    | K-feldspar-illite             | ++     |              |           |             | ++           |           | +      | +        | ++     |              |            |                             | (+) Halite; (+) rutile            |                                                                                     |
| 39Z-1, 83–87                 | 354.32       | PM040  | P029             | 113                   | Chlorite-pyrite               | ++     |              |           |             | ++           | (+)       | +      | (+)      |        |              |            |                             |                                   |                                                                                     |
| 43Z-1, 21                    | 371.71       | PM042  | P030             | 21                    | K-feldspar-illite             | ++     |              |           |             | ++           | +         | +      | +        | +      |              |            |                             | (+) Halite; (+) rutile            |                                                                                     |
| 43Z-1, 21                    | 371.71       | PM042  | P031             | 22                    | Pyrite-anhydrite              | ++     |              |           |             |              | +         | +      |          | ++     |              |            |                             | (+) Rutile                        |                                                                                     |
| 193-1189A-                   |              |        |                  |                       |                               |        |              |           |             |              |           |        |          |        |              |            |                             |                                   |                                                                                     |
| 1R-1, 12–17                  | 0.12         | PM044  | P032             | 114                   | Unaltered                     |        |              |           |             | ++           |           |        |          |        |              |            |                             | Glass; + augite                   |                                                                                     |
| 2R-1, 0–6                    | 9.70         | PM045  | P033             | 115                   | K-feldspar-illite             |        | +            |           |             | ++           |           |        |          |        |              |            |                             |                                   |                                                                                     |
| 2R-1, 126–137                | 10.97        | PM046  | Drilled separate | 23                    | Anhydrite-pyrite-pyrophyllite |        | ++           |           | +           |              | ++        |        | +        | +      |              |            | (+)                         | (+) Halite; (+) rutile            | Gray-green clast                                                                    |
| 2R-1, 126–137                | 10.97        | PM046  | Drilled separate | 24                    | Weak                          |        | ++           |           | ++          | ++           | +         |        | ?(+)     |        |              |            |                             |                                   | White clast                                                                         |
| 2R-1, 126–137                | 11.00        | PM047  | P034             | 25                    | Chlorite-pyrite               |        | ++           |           |             |              |           | (+)    | +        | +      |              |            |                             | (+) Halite                        |                                                                                     |
| 2R-1, 126–137                | 11.00        | PM048  | P035             | 26                    | K-feldspar-illite             |        | ++           |           | (+)         | ++           |           | +      | +        |        |              |            |                             |                                   |                                                                                     |
| 3R-1, 84–89                  | 20.24        | PM049  | P036             | 116                   | Pyrite-anhydrite              | ++     |              |           | +           |              |           | +      |          |        |              |            |                             |                                   | Pyrite in vesicles                                                                  |
| 5R-1, 41–50                  | 39.24        | PM050  | P037             | 117                   | Chlorite-pyrite               | ++     |              |           |             | (+)          | +         |        | +        | +      |              |            |                             |                                   |                                                                                     |
| 5R-1, 41–50                  | 39.24        | PM050  | P038             | 119                   | K-feldspar-illite             | ++     |              |           | +           | ++           |           | (+)    | +        | +      |              |            |                             |                                   |                                                                                     |
| 7R-1, 4–12                   | 58.41        | PM051  | P039             | 118                   | K-feldspar-illite             | ++     |              |           | +           | ++           |           | +      |          |        |              |            |                             |                                   |                                                                                     |
| 8R-1, 3–10                   | 68.04        | PM052  | P040             | 121                   | K-feldspar-illite             | (+)    | ++           |           | +           | ++           |           | (+)    |          | (+)    |              |            |                             |                                   |                                                                                     |
| 9R-1, 17–28                  | 77.91        | PM053  | P041             | 120                   | Chlorite-pyrite               | ++     |              |           |             | +            | +         |        | (+)      | (+)    |              |            |                             |                                   |                                                                                     |
| 10R-1, 38–51                 | 87.69        | PM054  | P042             | 122                   | K-feldspar-illite             | ++     |              |           | ++          | ++           |           | +      |          |        |              |            |                             |                                   |                                                                                     |
| 10R-1, 38–51                 | 87.69        | PM054  | P043             | 125                   | Pyrite-anhydrite              | ++     |              |           | +           |              | +         | +      |          | +      |              |            |                             |                                   |                                                                                     |
| 10R-1, 38–51                 | 87.69        | PM054  | Drilled separate | 27                    | K-feldspar-illite             | +      |              |           | +           |              | (+)       | +      | +        | +      |              |            |                             | + Halite; (+) gypsum              | Green groundmass, one large peak unassigned                                         |
| 10R-1, 38–51                 | 87.69        | PM054  | Drilled separate | 28                    | K-feldspar-illite             | ++     |              |           | +           | ++           |           | +      | +        |        |              |            |                             | (+) Halite                        | Light gray groundmass                                                               |
| 12R-1, 83–86                 | 107.33       | PM056  | P044             | 128                   | Chlorite-pyrite               | ++     |              |           |             |              |           | (+)    | +        | +      |              |            |                             | (+) Halite                        | Sharp chlorite and muscovite peaks; muscovite is disordered (mixed-layer component) |
| 12R-1, 120–128               | 107.70       | PM057  | P072             |                       |                               |        |              |           |             |              |           |        |          |        |              |            |                             |                                   |                                                                                     |

**Table T2.** Results of XRD analysis. (See table notes. Continued on next five pages.)

| Core, section,<br>interval (cm) | Depth<br>(mbsf) | Sample | Powder           | X-Ray analysis<br>number | Alteration                    | Quartz | Cristobalite | Tridymite | K-feldspar <sup>a</sup> |
|---------------------------------|-----------------|--------|------------------|--------------------------|-------------------------------|--------|--------------|-----------|-------------------------|
| <b>193-1188A-</b>               |                 |        |                  |                          |                               |        |              |           |                         |
| 5R-1, 38–40                     | 33.97           | PM002  | Drilled separate | 40                       | Weak                          |        |              |           |                         |
| 5R-1, 38–40                     | 33.97           | PM002  | Drilled separate | 41                       | Weak                          |        |              |           |                         |
| 5R-1, 38–40                     | 33.97           | PM002  | Drilled separate | 42                       | Weak                          |        |              |           |                         |
| 7R-1, 114–119                   | 49.34           | PM005  | P003             | 102                      | Chlorite-pyrite               |        | ++           | (+)       |                         |
| 7R-1, 114–119                   | 49.34           | PM005  | P004             | 103                      | Pyrite-anhydrite              |        | ++           | (+)       |                         |
| 8R-1, 13–17                     | 58.03           | PM006  | P005             | 3                        | Pyrite-anhydrite              |        | ++           | +         |                         |
| 8R-1, 13–17                     | 58.03           | PM006  | P006             | 4                        | Pyrite-anhydrite              |        | ++           | +         |                         |
| 8R-1, 13–17                     | 58.03           | PM006  | P071             | 147                      | Pyrite-anhydrite              |        | ++           | +         |                         |
| 8R-1, 66–70                     | 58.56           | PM007  | P007             | 109                      | Chlorite-pyrite               |        | ++           |           |                         |
| 9R-1, 130–135                   | 68.90           | PM008  | P008             | 2                        | Anhydrite-pyrite-pyrophyllite | +      | ++           |           |                         |
| 11R-1, 20–26                    | 87.10           | PM010  | P009             | 6                        | Pyrite-anhydrite              | ++     | ++           | +         |                         |
| 11R-1, 20–26                    | 87.10           | PM010  | P010             | 7                        | Chlorite-pyrite               | +      | ++           |           |                         |
| 12R-2, 48–51                    | 98.55           | PM011  | P011             | 107                      | Weak                          | +      | ++           | (+)       |                         |
| 12R-2, 48–51                    | 98.55           | PM011  | P069             | 108                      | Weak                          | +      | ++           |           |                         |
| 14R-1, 86–89                    | 116.86          | PM014  | P012             | 100                      | Anhydrite-pyrite-pyrophyllite | +      |              |           |                         |
| 14R-1, 86–89                    | 116.86          | PM014  | P070             | 101                      | Anhydrite-pyrite-pyrophyllite | ++     |              |           |                         |
| 14R-1, 105–108                  | 117.27          | PM015  | P013             | 09                       | Anhydrite-pyrite-pyrophyllite | ++     |              | (+)       |                         |
| 14R-1, 105–108                  | 117.27          | PM015  | P014             | 08                       | Anhydrite-pyrite-pyrophyllite | ++     |              | (+)       |                         |
| 16R-1, 139–143                  | 136.79          | PM016  | Drilled separate | 10                       | Anhydrite-pyrite-pyrophyllite | ++     |              |           |                         |
| 16R-1, 139–143                  | 136.79          | PM016  | Drilled separate | 11                       | Chlorite-pyrite               | ++     |              |           |                         |
| 17R-1, 24–28                    | 145.34          | PM018  | P015             | 12                       | Anhydrite-pyrite-pyrophyllite | ++     |              |           |                         |
| 19R-1, 41–46                    | 164.71          | PM020  | P016             | 104                      | Chlorite-pyrite               | ++     | +            | (+)       |                         |
| 19R-1, 86–90                    | 165.16          | PM021  | P017             | 110                      | Weak                          |        | ++           |           |                         |
| 20R-1, 95–102                   | 174.85          | PM023  | P018             | 105                      | Chlorite-pyrite               | ++     |              |           |                         |
| 20R-1, 95–102                   | 174.85          | PM023  | P019             | 106                      | Chlorite-pyrite               | ++     |              |           |                         |
| <b>193-1188F-</b>               |                 |        |                  |                          |                               |        |              |           |                         |
| 6Z-1, 46–47                     | 233.56          | PM026  | P020             | 47                       | Weak                          |        | +            |           |                         |
| 6Z-1, 46–47                     | 233.56          | PM026  | P020             | 48                       | Weak                          | +      | +            |           |                         |
| 8Z-1, 26                        | 236.46          | PM027  | P021             | 14                       | Pyrite-anhydrite              | ++     |              |           |                         |
| 8Z-1, 26                        | 236.46          | PM027  | Drilled separate | 15                       | Anhydrite-pyrite-pyrophyllite | ++     |              |           |                         |
| 9Z-1, 9–12                      | 237.80          | PM028  | Drilled separate | 45                       | Anhydrite-pyrite-pyrophyllite | +      |              |           |                         |
| 9Z-1, 9–12                      | 237.80          | PM028  | Drilled separate | 46                       | Illite                        | ++     |              |           |                         |
| 13Z-1, 0–23                     | 241.40          | PM029  | P022             | 123                      | Anhydrite-pyrite-pyrophyllite | ++     |              |           |                         |
| 13Z-1, 0–23                     | 241.40          | PM029  | P023             | 124                      | Pyrite-anhydrite              | ++     |              |           |                         |
| 19Z-1, 0–41                     | 268.67          | PM033  | P024             | 111                      | Pyrite-anhydrite              | ++     |              |           |                         |
| 23Z-2, 56–63                    | 288.66          | PM035  | P026             | 19                       | Anhydrite-pyrite-pyrophyllite | ++     |              |           |                         |
| 23Z-2, 56–63                    | 288.66          | PM035  | P025             | 18                       | Chlorite-pyrite               | ++     |              |           |                         |
| 30Z-1, 13–20                    | 318.23          | PM036  | P027             | 112                      | K-feldspar-illite             | ++     |              |           |                         |
| 34Z-1, 122–130                  | 337.63          | PM037  | P028             | 20                       | K-feldspar-illite             | ++     |              |           |                         |
| 39Z-1, 83–87                    | 354.32          | PM040  | P029             | 113                      | Chlorite-pyrite               | ++     |              |           |                         |
| 43Z-1, 21                       | 371.71          | PM042  | P030             | 21                       | K-feldspar-illite             | ++     |              |           |                         |
| 43Z-1, 21                       | 371.71          | PM042  | P031             | 22                       | Pyrite-anhydrite              | ++     |              |           |                         |
| <b>193-1189A-</b>               |                 |        |                  |                          |                               |        |              |           |                         |
| 1R-1, 12–17                     | 0.12            | PM044  | P032             | 114                      | Unaltered                     |        |              |           |                         |
| 2R-1, 0–6                       | 9.70            | PM045  | P033             | 115                      | K-feldspar-illite             |        | +            |           |                         |
| 2R-1, 126–137                   | 10.97           | PM046  | Drilled separate | 23                       | Anhydrite-pyrite-pyrophyllite |        | ++           |           | +                       |
| 2R-1, 126–137                   | 10.97           | PM046  | Drilled separate | 24                       | Weak                          |        | ++           |           | ++                      |
| 2R-1, 126–137                   | 11.00           | PM047  | P034             | 25                       | Chlorite-pyrite               |        | ++           |           | +                       |
| 2R-1, 126–137                   | 11.00           | PM048  | P035             | 26                       | K-feldspar-illite             |        | ++           |           | (+)                     |
| 3R-1, 84–89                     | 20.24           | PM049  | P036             | 116                      | Pyrite-anhydrite              | ++     |              |           | +                       |
| 5R-1, 41–50                     | 39.24           | PM050  | P037             | 117                      | Chlorite-pyrite               | ++     |              |           |                         |
| 5R-1, 41–50                     | 39.24           | PM050  | P038             | 119                      | K-feldspar-illite             | ++     |              |           | +                       |
| 7R-1, 4–12                      | 58.41           | PM051  | P039             | 118                      | K-feldspar-illite             | ++     |              |           | +                       |
| 8R-1, 3–10                      | 68.04           | PM052  | P040             | 121                      | K-feldspar-illite             | (+)    | ++           |           | +                       |
| 9R-1, 17–28                     | 77.91           | PM053  | P041             | 120                      | Chlorite-pyrite               | ++     |              |           |                         |
| 10R-1, 38–51                    | 87.69           | PM054  | P042             | 122                      | K-feldspar-illite             | ++     |              |           | ++                      |
| 10R-1, 38–51                    | 87.69           | PM054  | P043             | 125                      | Pyrite-anhydrite              | ++     |              |           | +                       |
| 10R-1, 38–51                    | 87.69           | PM054  | Drilled separate | 27                       | K-feldspar-illite             | +      |              |           | +                       |
| 10R-1, 38–51                    | 87.69           | PM054  | Drilled separate | 28                       | K-feldspar-illite             | ++     |              |           | +                       |
| 12R-1, 83–86                    | 107.33          | PM056  | P044             | 128                      | Chlorite-pyrite               | ++     |              |           |                         |
| 12R-1, 120–128                  | 107.70          | PM057  | P072             | 29                       | Illite                        | ++     |              |           |                         |
| 13R-1, 51–53                    | 116.61          | PM058  | P045             | 129                      | Chlorite-pyrite               | ++     |              |           |                         |
| 13R-1, 51–53                    | 116.61          | PM058  | Drilled separate | 30                       | Chlorite-pyrite               | ++     |              |           |                         |
| 13R-1, 51–53                    | 116.61          | PM058  | Drilled separate | 31                       | Chlorite-pyrite               | ++     |              |           |                         |

**Table T2 (continued).**

| Core, section,<br>interval (cm) | Depth<br>(mbsf) | Sample | Plagioclase <sup>†</sup> | Anhydrite | Pyrite | Chlorite | Illite | Pyrophyllite | Paragonite | Mixed-layer<br>phyllosilicates |
|---------------------------------|-----------------|--------|--------------------------|-----------|--------|----------|--------|--------------|------------|--------------------------------|
| <b>193-1188A-</b>               |                 |        |                          |           |        |          |        |              |            |                                |
| 5R-1, 38–40                     | 33.97           | PM002  |                          |           |        |          |        |              |            |                                |
| 5R-1, 38–40                     | 33.97           | PM002  |                          |           |        |          |        |              |            |                                |
| 5R-1, 38–40                     | 33.97           | PM002  |                          |           |        |          |        |              |            | +                              |
| 7R-1, 114–119                   | 49.34           | PM005  |                          | +         | +      | (+)      | +?     |              |            |                                |
| 7R-1, 114–119                   | 49.34           | PM005  |                          | ++        | ++     |          |        |              |            | +                              |
| 8R-1, 13–17                     | 58.03           | PM006  |                          | (+)       | +      |          |        |              |            | +                              |
| 8R-1, 13–17                     | 58.03           | PM006  |                          | (+)       | ++     |          |        |              |            | +                              |
| 8R-1, 13–17                     | 58.03           | PM006  |                          | (+)       | +      |          |        |              | +?         | +                              |
| 8R-1, 66–70                     | 58.56           | PM007  |                          |           | (+)    | +        | (+)    |              |            |                                |
| 9R-1, 130–135                   | 68.90           | PM008  |                          | ++        | +      |          |        | +            | +          |                                |
| 11R-1, 20–26                    | 87.10           | PM010  |                          | ++        |        |          | +      | ?(+)         |            |                                |
| 11R-1, 20–26                    | 87.10           | PM010  | ++                       | +         | ++     | ?(+)     |        |              |            | (+)                            |
| 12R-2, 48–51                    | 98.55           | PM011  | ++                       |           | (+)    | (+)      |        |              |            |                                |
| 12R-2, 48–51                    | 98.55           | PM011  | ++                       |           |        | (+)      |        |              |            |                                |
| 14R-1, 86–89                    | 116.86          | PM014  |                          | ++        | +      |          | +?     | +?           |            | +?                             |
| 14R-1, 86–89                    | 116.86          | PM014  |                          | +         | (+)    |          |        | +?           |            |                                |
| 14R-1, 105–108                  | 117.27          | PM015  |                          | ++        |        |          |        |              | +?         | ?                              |
| 14R-1, 105–108                  | 117.27          | PM015  |                          | ++        |        |          | ?(+)   |              | +?         | ?                              |
| 16R-1, 139–143                  | 136.79          | PM016  |                          | ++        |        | (+)      | +      |              |            |                                |
| 16R-1, 139–143                  | 136.79          | PM016  | ++                       |           | +      | (+)      |        |              |            |                                |
| 17R-1, 24–28                    | 145.34          | PM018  |                          | ++        | +      | (+)      | ?      |              |            | +                              |
| 19R-1, 41–46                    | 164.71          | PM020  | +                        |           | (+)    | +?       |        |              |            | +?                             |
| 19R-1, 86–90                    | 165.16          | PM021  | ++                       | (+)       |        | (+)      |        |              |            |                                |
| 20R-1, 95–102                   | 174.85          | PM023  | +                        |           | +      |          |        |              |            |                                |
| 20R-1, 95–102                   | 174.85          | PM023  | ++                       | (+)       | +      |          |        |              |            | (+)                            |
| <b>193-1188F-</b>               |                 |        |                          |           |        |          |        |              |            |                                |
| 6Z-1, 46–47                     | 233.56          | PM026  | +                        |           |        | +        |        |              |            |                                |
| 6Z-1, 46–47                     | 233.56          | PM026  |                          | (+)       | +      | +        |        |              |            |                                |
| 8Z-1, 26                        | 236.46          | PM027  |                          | +         | +      | (+)      | ?(+)   |              |            |                                |
| 8Z-1, 26                        | 236.46          | PM027  |                          | ++        |        |          | ?      | ?            | +          | +                              |
| 9Z-1, 9–12                      | 237.80          | PM028  |                          | ++        |        |          | +      |              | +          |                                |
| 9Z-1, 9–12                      | 237.80          | PM028  |                          | +         |        |          | ++     |              |            |                                |
| 13Z-1, 0–23                     | 241.40          | PM029  |                          | ++        | +      |          | +      |              |            |                                |
| 13Z-1, 0–23                     | 241.40          | PM029  |                          | (+)       | +      |          | +      |              |            |                                |
| 19Z-1, 0–41                     | 268.67          | PM033  |                          | +         | +      |          | +?     |              |            | +?                             |
| 23Z-2, 56–63                    | 288.66          | PM035  |                          | ++        | +      |          | +      |              |            |                                |
| 23Z-2, 56–63                    | 288.66          | PM035  |                          | +         | (+)    | ++       | +      |              |            |                                |
| 30Z-1, 13–20                    | 318.23          | PM036  | + Ab                     |           |        | (+)      | +      |              |            |                                |
| 34Z-1, 122–130                  | 337.63          | PM037  | ++                       |           | +      | +        | ++     |              |            |                                |
| 39Z-1, 83–87                    | 354.32          | PM040  | ++                       | (+)       | +      | (+)      |        |              |            |                                |
| 43Z-1, 21                       | 371.71          | PM042  | ++                       | +         | +      | +        | +      |              |            |                                |
| 43Z-1, 21                       | 371.71          | PM042  |                          | +         | +      |          | ++     |              |            |                                |
| <b>193-1189A-</b>               |                 |        |                          |           |        |          |        |              |            |                                |
| 1R-1, 12–17                     | 0.12            | PM044  | ++                       |           |        |          |        |              |            |                                |
| 2R-1, 0–6                       | 9.70            | PM045  | ++                       |           |        |          |        |              |            |                                |
| 2R-1, 126–137                   | 10.97           | PM046  |                          | ++        |        | +        | +      |              |            | (+)                            |
| 2R-1, 126–137                   | 10.97           | PM046  | ++                       | +         | +      | ?(+)     |        |              |            |                                |
| 2R-1, 126–137                   | 11.00           | PM047  |                          |           | (+)    | +        | +      |              |            |                                |
| 2R-1, 126–137                   | 11.00           | PM048  | ++                       |           | +      | +        |        |              |            |                                |
| 3R-1, 84–89                     | 20.24           | PM049  |                          |           | +      |          |        |              |            |                                |
| 5R-1, 41–50                     | 39.24           | PM050  | (+)                      | +         |        | +        | +      |              |            |                                |
| 5R-1, 41–50                     | 39.24           | PM050  | ++                       |           | (+)    | +        | +      |              |            |                                |
| 7R-1, 4–12                      | 58.41           | PM051  | ++                       |           | +      |          |        |              |            |                                |
| 8R-1, 3–10                      | 68.04           | PM052  | ++                       |           | (+)    |          | (+)    |              |            |                                |
| 9R-1, 17–28                     | 77.91           | PM053  | +                        | +         | (+)    | (+)      |        |              |            |                                |
| 10R-1, 38–51                    | 87.69           | PM054  | ++                       |           | +      |          |        |              |            |                                |
| 10R-1, 38–51                    | 87.69           | PM054  |                          | +         | +      |          | +      |              |            |                                |
| 10R-1, 38–51                    | 87.69           | PM054  |                          | (+)       | +      | +        | +      |              |            |                                |
| 10R-1, 38–51                    | 87.69           | PM054  | ++                       |           | +      | +        |        |              |            |                                |
| 12R-1, 83–86                    | 107.33          | PM056  |                          |           | (+)    | +        | +      |              |            |                                |
| 12R-1, 120–128                  | 107.70          | PM057  |                          | (+)       | (+)    |          | ++     |              |            |                                |
| 13R-1, 51–53                    | 116.61          | PM058  | + Ab                     |           | +      | +        | (+)    |              |            |                                |
| 13R-1, 51–53                    | 116.61          | PM058  |                          |           | +      | ++       | +      |              |            |                                |
| 13R-1, 51–53                    | 116.61          | PM058  |                          |           | +      | +        | +      |              |            |                                |

**Table T2 (continued).**

| Core, section,<br>interval (cm) | Depth<br>(mbsf) | Sample | Others                            | Comments                                                                            |
|---------------------------------|-----------------|--------|-----------------------------------|-------------------------------------------------------------------------------------|
| <b>193-1188A-</b>               |                 |        |                                   |                                                                                     |
| 5R-1, 38–40                     | 33.97           | PM002  | Glass                             | Cores of perlite                                                                    |
| 5R-1, 38–40                     | 33.97           | PM002  | Glass                             | Margins of perlite                                                                  |
| 5R-1, 38–40                     | 33.97           | PM002  | Glass                             | Pseudomatrix between perlite kernels                                                |
| 7R-1, 114–119                   | 49.34           | PM005  |                                   | Broad peaks, basal spacing >10 Å, dioctahedral component                            |
| 7R-1, 114–119                   | 49.34           | PM005  |                                   | Broad peaks, basal spacing >10 Å, disordered mixed-layer, dioctahedral component    |
| 8R-1, 13–17                     | 58.03           | PM006  |                                   | Broad band between 7 and 10 Å, muscovite?, pyrophyllite?                            |
| 8R-1, 13–17                     | 58.03           | PM006  |                                   | Broad band between 7 and 9 Å, muscovite?, pyrophyllite?                             |
| 8R-1, 13–17                     | 58.03           | PM006  |                                   | Phyllosilicate problematic: bulge between 5°2θ and 10°2θ                            |
| 8R-1, 66–70                     | 58.56           | PM007  | (+) Anatase                       | Muscovite is M1 polytype                                                            |
| 9R-1, 130–135                   | 68.90           | PM008  | (+) Halite; + gypsum; (+) anatase | 2 phyllosilicate!                                                                   |
| 11R-1, 20–26                    | 87.10           | PM010  | + Gypsum                          | Broad muscovite peak, potentially mixed layer?                                      |
| 11R-1, 20–26                    | 87.10           | PM010  | + Rutile                          | Broad band between 6 and 7 Å                                                        |
| 12R-2, 48–51                    | 98.55           | PM011  |                                   |                                                                                     |
| 12R-2, 48–51                    | 98.55           | PM011  |                                   |                                                                                     |
| 14R-1, 86–89                    | 116.86          | PM014  | + Gypsum                          | Dioctahedral phyllosilicate with broad peaks                                        |
| 14R-1, 86–89                    | 116.86          | PM014  | + Anatase (+) halite              | One dioctahedral phyllosilicate with broad peaks (muscovite excluded)               |
| 14R-1, 105–108                  | 117.27          | PM015  | Gypsum; (+) halite                | Broad peak between 8 and 10 Å                                                       |
| 14R-1, 105–108                  | 117.27          | PM015  | + Gypsum; (+) halite              | Separate of white clasts, broad peak between 8 and 10 Å                             |
| 16R-1, 139–143                  | 136.79          | PM016  | (+) Gypsum; (+) Rutile            | Sharp muscovite peaks                                                               |
| 16R-1, 139–143                  | 136.79          | PM016  |                                   |                                                                                     |
| 17R-1, 24–28                    | 145.34          | PM018  | + Gypsum                          | Broad peak: 8 to 9 Å                                                                |
| 19R-1, 41–46                    | 164.71          | PM020  |                                   | One trioctahedral phyllosilicate, smectite?                                         |
| 19R-1, 86–90                    | 165.16          | PM021  |                                   |                                                                                     |
| 20R-1, 95–102                   | 174.85          | PM023  |                                   |                                                                                     |
| 20R-1, 95–102                   | 174.85          | PM023  |                                   | Smectite? Very broad peak at ~14 Å                                                  |
| <b>193-1188F-</b>               |                 |        |                                   |                                                                                     |
| 6Z-1, 46–47                     | 233.56          | PM026  |                                   | Spheroids, trace quartz                                                             |
| 6Z-1, 46–47                     | 233.56          | PM026  |                                   | Groundmass, trace plagioclase                                                       |
| 8Z-1, 26                        | 236.46          | PM027  |                                   |                                                                                     |
| 8Z-1, 26                        | 236.46          | PM027  | (+) Rutile; (+) gypsum            | Broad peak: 9 to 10 Å                                                               |
| 9Z-1, 9–12                      | 237.80          | PM028  | (+) Gypsum; (+) halite            |                                                                                     |
| 9Z-1, 9–12                      | 237.80          | PM028  |                                   | Gray groundmass                                                                     |
| 13Z-1, 0–23                     | 241.40          | PM029  | (+) Halite                        |                                                                                     |
| 13Z-1, 0–23                     | 241.40          | PM029  |                                   |                                                                                     |
| 19Z-1, 0–41                     | 268.67          | PM033  |                                   | Dioctahedral phyllosilicate with broad peaks                                        |
| 23Z-2, 56–63                    | 288.66          | PM035  | (+) Rutile                        |                                                                                     |
| 23Z-2, 56–63                    | 288.66          | PM035  | (+) Rutile; (+) gypsum            |                                                                                     |
| 30Z-1, 13–20                    | 318.23          | PM036  | (+) Magnetite                     |                                                                                     |
| 34Z-1, 122–130                  | 337.63          | PM037  | (+) Halite; (+) rutile            |                                                                                     |
| 39Z-1, 83–87                    | 354.32          | PM040  |                                   |                                                                                     |
| 43Z-1, 21                       | 371.71          | PM042  | (+) Halite; (+) rutile            |                                                                                     |
| 43Z-1, 21                       | 371.71          | PM042  | (+) Rutile                        |                                                                                     |
| <b>193-1189A-</b>               |                 |        |                                   |                                                                                     |
| 1R-1, 12–17                     | 0.12            | PM044  | Glass; + augite                   |                                                                                     |
| 2R-1, 0–6                       | 9.70            | PM045  |                                   |                                                                                     |
| 2R-1, 126–137                   | 10.97           | PM046  | (+) Halite; (+) rutile            | Gray-green clast                                                                    |
| 2R-1, 126–137                   | 10.97           | PM046  |                                   | White clast                                                                         |
| 2R-1, 126–137                   | 11.00           | PM047  | (+) Halite                        |                                                                                     |
| 2R-1, 126–137                   | 11.00           | PM048  |                                   |                                                                                     |
| 3R-1, 84–89                     | 20.24           | PM049  |                                   | Pyrite in vesicles                                                                  |
| 5R-1, 41–50                     | 39.24           | PM050  |                                   |                                                                                     |
| 5R-1, 41–50                     | 39.24           | PM050  |                                   |                                                                                     |
| 7R-1, 4–12                      | 58.41           | PM051  |                                   |                                                                                     |
| 8R-1, 3–10                      | 68.04           | PM052  |                                   |                                                                                     |
| 9R-1, 17–28                     | 77.91           | PM053  |                                   |                                                                                     |
| 10R-1, 38–51                    | 87.69           | PM054  |                                   |                                                                                     |
| 10R-1, 38–51                    | 87.69           | PM054  |                                   |                                                                                     |
| 10R-1, 38–51                    | 87.69           | PM054  | + Halite; (+) gypsum              | Green groundmass, one large peak unassigned                                         |
| 10R-1, 38–51                    | 87.69           | PM054  | (+) Halite                        | Light gray groundmass                                                               |
| 12R-1, 83–86                    | 107.33          | PM056  | (+) Halite                        | Sharp chlorite and muscovite peaks; muscovite is disordered (mixed-layer component) |
| 12R-1, 120–128                  | 107.70          | PM057  |                                   | Pumice clasts                                                                       |
| 13R-1, 51–53                    | 116.61          | PM058  |                                   |                                                                                     |
| 13R-1, 51–53                    | 116.61          | PM058  | (+) Halite                        | Light green clast                                                                   |
| 13R-1, 51–53                    | 116.61          | PM058  | (+) Halite                        | Light gray clast                                                                    |

**Table T2 (continued).**

| Core, section,<br>interval (cm) | Depth<br>(mbsf) | Sample | Powder           | X-Ray analysis<br>number | Alteration                    | Quartz | Cristobalite | Tridymite | K-feldspar* |
|---------------------------------|-----------------|--------|------------------|--------------------------|-------------------------------|--------|--------------|-----------|-------------|
| <b>193-1189B-</b>               |                 |        |                  |                          |                               |        |              |           |             |
| 5R-1, 45–55                     | 69.75           | PM059  | Drilled separate | 32                       | K-feldspar-illite             | +      |              |           | +           |
| 6R-1, 0–12                      | 79.00           | PM060  | P073             | 33                       | Chlorite-pyrite               | +      |              |           | (+)         |
| 10R-1, 57–60                    | 118.47          | PM061  | Drilled separate | 43                       | Chlorite-pyrite               | +      |              |           | (+)         |
| 10R-1, 57–60                    | 118.47          | PM061  | Drilled separate | 44                       | Chlorite-pyrite               | +      |              |           | (+)         |
| 11R-1, 22–27                    | 127.82          | PM063  | P046             | 130                      | K-feldspar-illite             | ++     |              |           | +           |
| 11R-3, 0–29                     | 129.72          | PM064  | P047             | 126                      | Unaltered                     |        | ++           |           | +           |
| 13R-1, 48                       | 147.48          | PM068  | P048             | 127                      | K-feldspar-illite             | ++     |              |           | +           |
| 14R-1, 87                       | 157.37          | PM071  | P049             | 131                      | Anhydrite-pyrite-pyrophyllite | ++     |              |           | +           |
| 15R-1, 25                       | 166.35          | PM073  | P050             | 133                      | Weak                          |        | ++           |           | +           |
| 15R-1, 25                       | 166.35          | PM073  | P051             | 134                      | K-feldspar-illite             | ++     | ++           |           | +           |
| 15R-1, 124                      | 167.34          | PM075  | P053             | 35                       | Weak                          |        | ++           |           | (+)         |
| 15R-1, 124                      | 167.34          | PM075  | P052             | 34                       | Weak                          | +      | ++           |           | +           |
| 16R-1, 74–81                    | 176.45          | PM079  | P054             | 132                      | Weak                          | ++     |              |           | +           |
| 17R-1, 56–60                    | 185.87          | PM082  | P055             | 135                      | K-feldspar-illite             | ++     |              |           | +           |
| 18R-1, 4–12                     | 195.05          | PM085  | P056             | 136                      | K-feldspar-illite             | ++     | ++           |           | +           |
| 18R-1, 4–12                     | 195.05          | PM085  | P057             | 137                      | K-feldspar-illite             | ++     |              |           | +           |
| 18R-1, 45–50                    | 195.45          | PM086  | P058             | 139                      | K-feldspar-illite             |        | +            |           | ++          |
| 18R-1, 45–50                    | 195.45          | PM086  | P059             | 141                      | K-feldspar-illite             | ++     | +            |           | +           |
| 18R-1, 124–131                  | 196.25          | PM088  | P060             | 138                      | Weak                          |        | ++           |           | +           |
| 18R-1, 124–131                  | 196.25          | PM088  | Drilled separate | 39                       | Weak                          |        | ++           | (+)       | (+)         |
| 18R-2, 0–4                      | 196.42          | PM089  | P061             | 140                      | K-feldspar-illite             | +      | ++           |           | +           |
| 18R-2, 48–59                    | 196.91          | PM090  | P062             | 36                       | K-feldspar-illite             |        | ++           | (+)       | +           |
| 18R-2, 48–59                    | 196.91          | PM090  | P063             | 38                       | K-feldspar-illite             | +      |              |           | +           |
| 18R-2, 48–59                    | 196.91          | PM090  | P064             | 142                      | K-feldspar-illite             | ++     |              |           | +           |
| 18R-2, 48–59                    | 196.91          | PM090  | Drilled separate | 37                       | K-feldspar-illite             | ++     |              |           | +           |
| <b>193-1190C-</b>               |                 |        |                  |                          |                               |        |              |           |             |
| 3R-1, 3–7                       | 13.23           | PM092  | P065             | 146                      | Unaltered                     |        |              |           |             |
| <b>193-1191A-</b>               |                 |        |                  |                          |                               |        |              |           |             |
| 1R-1, 59–65                     | 0.64            | PM093  | P066             | 143                      | Unaltered                     |        | ++           |           | +           |
| 1R-1, 75–80                     | 0.75            | PM094  | P067             | 144                      | Unaltered                     |        |              |           |             |
| 3R-1, 80–87                     | 15.50           | PM095  | P068             | 145                      | Weak                          |        | ++           |           | +?          |

Notes: \* = alkali-feldspar (usually diffraction pattern consistent with sanidine or orthoclase), † = usually diffraction pattern consistent with labradorite or andesine; some patterns indicate albite (Ab). Estimate of mineral abundance based on relative peak heights: ++ = dominant, + = common, (+) = rare.

**Table T2 (continued).**

| Core, section,<br>interval (cm) | Depth<br>(mbsf) | Sample | Plagioclase <sup>†</sup> | Anhydrite | Pyrite | Chlorite | Illite | Pyrophyllite | Paragonite | Mixed-layer<br>phyllosilicates |
|---------------------------------|-----------------|--------|--------------------------|-----------|--------|----------|--------|--------------|------------|--------------------------------|
| 193-1189B-                      |                 |        |                          |           |        |          |        |              |            |                                |
| 5R-1, 45–55                     | 69.75           | PM059  |                          |           |        | +        | +      |              |            |                                |
| 6R-1, 0–12                      | 79.00           | PM060  |                          |           | (+)    | ++       | +      |              |            |                                |
| 10R-1, 57–60                    | 118.47          | PM061  |                          |           | +      | ++       | +      |              |            |                                |
| 10R-1, 57–60                    | 118.47          | PM061  |                          |           | (+)    | ++       | (+)    |              |            |                                |
| 11R-1, 22–27                    | 127.82          | PM063  |                          | (+)       | (+)    |          |        |              |            |                                |
| 11R-3, 0–29                     | 129.72          | PM064  | ++                       |           |        |          |        |              |            |                                |
| 13R-1, 48                       | 147.48          | PM068  | +                        |           |        | (+)?     |        |              |            | (+)?                           |
| 14R-1, 87                       | 157.37          | PM071  | +                        | ++        | (+)    | +        | +      |              |            |                                |
| 15R-1, 25                       | 166.35          | PM073  | ++                       |           |        | (+)      | (+)    |              |            |                                |
| 15R-1, 25                       | 166.35          | PM073  | ++                       |           | +      | +        | +      |              |            |                                |
| 15R-1, 124                      | 167.34          | PM075  | +                        |           | +      | +        | (+)    |              |            |                                |
| 15R-1, 124                      | 167.34          | PM075  | +                        |           | (+)    | +        | +      |              |            |                                |
| 16R-1, 74–81                    | 176.45          | PM079  | +                        |           | (+)    |          |        |              |            |                                |
| 17R-1, 56–60                    | 185.87          | PM082  | ++                       |           | +      |          |        |              |            |                                |
| 18R-1, 4–12                     | 195.05          | PM085  | ++                       |           | (+)    |          |        |              |            |                                |
| 18R-1, 4–12                     | 195.05          | PM085  | ++                       |           | (+)    |          |        |              |            |                                |
| 18R-1, 45–50                    | 195.45          | PM086  | +                        |           |        | (+)      |        |              |            |                                |
| 18R-1, 45–50                    | 195.45          | PM086  | +                        |           | (+)    |          |        |              |            |                                |
| 18R-1, 124–131                  | 196.25          | PM088  | ++                       |           |        | (+)      |        |              |            |                                |
| 18R-1, 124–131                  | 196.25          | PM088  | +                        |           |        | +        | (+)    |              |            |                                |
| 18R-2, 0–4                      | 196.42          | PM089  | ++                       |           |        | (+)      | (+)    |              |            |                                |
| 18R-2, 48–59                    | 196.91          | PM090  | +                        |           | (+)    | +        | +      |              |            |                                |
| 18R-2, 48–59                    | 196.91          | PM090  | ++                       |           | (+)    | +        | +      |              |            |                                |
| 18R-2, 48–59                    | 196.91          | PM090  | ++                       |           | (+)    |          |        |              |            |                                |
| 18R-2, 48–59                    | 196.91          | PM090  | +                        |           |        | +        | +      |              |            |                                |
| 193-1190C-                      |                 |        |                          |           |        |          |        |              |            |                                |
| 3R-1, 3–7                       | 13.23           | PM092  | ++                       |           |        |          |        |              |            |                                |
| 193-1191A-                      |                 |        |                          |           |        |          |        |              |            |                                |
| 1R-1, 59–65                     | 0.64            | PM093  | ++                       |           |        |          |        |              |            |                                |
| 1R-1, 75–80                     | 0.75            | PM094  | ++                       |           |        |          |        |              |            |                                |
| 3R-1, 80–87                     | 15.50           | PM095  | ++                       |           |        |          |        |              |            |                                |

**Table T2 (continued).**

| Core, section,<br>interval (cm) | Depth<br>(mbsf) | Sample | Others                         | Comments                                                |
|---------------------------------|-----------------|--------|--------------------------------|---------------------------------------------------------|
| <b>193-1189B-</b>               |                 |        |                                |                                                         |
| 5R-1, 45–55                     | 69.75           | PM059  | (+) Halite                     | Gray-green fragments; in sulfide stockwork matrix       |
| 6R-1, 0–12                      | 79.00           | PM060  | (+) Halite                     | Gray-green fragments; in jasper stockwork matrix        |
| 10R-1, 57–60                    | 118.47          | PM061  | (+) Halite                     | White bands of flow-banded dacite                       |
| 10R-1, 57–60                    | 118.47          | PM061  | (+) Halite                     | Green bands of flow-banded dacite                       |
| 11R-1, 22–27                    | 127.82          | PM063  |                                |                                                         |
| 11R-3, 0–29                     | 129.72          | PM064  |                                |                                                         |
| 13R-1, 48                       | 147.48          | PM068  |                                | Traces of dioctahedral and trioctahedral phyllosilicate |
| 14R-1, 87                       | 157.37          | PM071  |                                |                                                         |
| 15R-1, 25                       | 166.35          | PM073  |                                |                                                         |
| 15R-1, 25                       | 166.35          | PM073  |                                |                                                         |
| 15R-1, 124                      | 167.34          | PM075  | (+) Halite                     | Light green clasts; extremely minor muscovite           |
| 15R-1, 124                      | 167.34          | PM075  | (+) Halite                     | Gray clasts                                             |
| 16R-1, 74–81                    | 176.45          | PM079  |                                |                                                         |
| 17R-1, 56–60                    | 185.87          | PM082  |                                |                                                         |
| 18R-1, 4–12                     | 195.05          | PM085  |                                |                                                         |
| 18R-1, 4–12                     | 195.05          | PM085  |                                |                                                         |
| 18R-1, 45–50                    | 195.45          | PM086  |                                |                                                         |
| 18R-1, 45–50                    | 195.45          | PM086  |                                |                                                         |
| 18R-1, 124–131                  | 196.25          | PM088  |                                |                                                         |
| 18R-1, 124–131                  | 196.25          | PM088  |                                | Light gray-green clast                                  |
| 18R-2, 0–4                      | 196.42          | PM089  |                                |                                                         |
| 18R-2, 48–59                    | 196.91          | PM090  | (+) Halite                     |                                                         |
| 18R-2, 48–59                    | 196.91          | PM090  | (+) Halite                     | Gray, flow-banded clast                                 |
| 18R-2, 48–59                    | 196.91          | PM090  |                                |                                                         |
| 18R-2, 48–59                    | 196.91          | PM090  | (+) Halite                     | Green clast                                             |
| <b>193-1190C-</b>               |                 |        |                                |                                                         |
| 3R-1, 3–7                       | 13.23           | PM092  | Glass                          |                                                         |
| <b>193-1191A-</b>               |                 |        |                                |                                                         |
| 1R-1, 59–65                     | 0.64            | PM093  | (+) Halite (+) titanomagnetite |                                                         |
| 1R-1, 75–80                     | 0.75            | PM094  | Glass                          |                                                         |
| 3R-1, 80–87                     | 15.50           | PM095  |                                |                                                         |