

Table 3. Petrographic descriptions of thin sections chosen as typical of each Fredericksburg facies.

| SAMPLE NUMBER<br>(Stratigraphic position<br>of sample indicated on<br>section) | SECTION NUMBER<br>(Plates 17 and 18) | ROCK NAME                                  | ORTHOCHEMS |              |           | ALLOCHEMS  |         |         |            |       |                |             |       |              |            |           |            |       |             |            |            |            |            | TERRIGENOUS CONSTITUENTS |            |            |            |            |            | ALLOCHEM<br>SORTING | AVG. ALLOCHEM<br>GRAIN SIZE<br>mm | Loose >50% matrix<br>Medium 25-50% matrix<br>Tight <25% matrix |              |            |        |   |                   |
|--|--------------------------------------|--|------------|--------------|-----------|------------|---------|---------|------------|-------|----------------|-------------|-------|--------------|------------|-----------|------------|-------|-------------|------------|------------|------------|------------|--------------------------|------------|------------|------------|------------|------------|---------------------|-----------------------------------|--|--------------|------------|--------|---|-------------------|
|  |                                      |  | Total<br>% | Micrite<br>% | Spar<br>% | Total<br>% | FOSSILS |         |            |       |                |             |       |              |            |           |            |       | INTRACLASTS |            | PELLETS    |            | OOLITES    |                          | Total<br>% | QUARTZ     |            |            | CLAY       |                     |                                   |  |              |            |        |   |                   |
|  |                                      |  |            |              |           |            | Total   | OYSTERS |            |       | OTHER MOLLUSCS |             |       | FORAMINIFERA |            | ECHINOIDS |            |       | ALGAE       |            | Total<br>% | Size<br>mm | Total<br>% | Size<br>mm               |            | Total<br>% | Size<br>mm | Total<br>% | Size<br>mm |                     |                                   |  | Total<br>%   | Size<br>mm | Shape  | % | Distribu-<br>tion |
|  |                                      |  |            |              |           |            |         | %       | Size<br>mm | Shape | %              | Size<br>mm  | Shape | %            | Size<br>mm | %         | Size<br>mm | Shape | %           | Size<br>mm |            |            |            |                          |            |            |            |            |            |                     |                                   |  |              |            |        |   |                   |
| CM-8   | 10                                   | Intraclastic, shell<br>fragment biomicrite | 75         | 98           | 2         | 22         | 15      | 26      | 1.0        | Ang.  | 40             | 0.5         | Ang.  | tr           | 0.3        | 20        | 0.5        | Ang.  | 14          | 0.3        | 7          | 1.0        | -          | -                        | -          | -          | 3          | 100        | 0.15       | Ang.                | -                                 | -  | Poor         | 0.4        | Loose  |   |                   |
| BL-1   | 5                                    | Sandy, shell fragment<br>biomicrite        | 82         | 98           | 2         | 10         | 10      | -       | -          | -     | 80             | 1.0         | Ang.  | -            | -          | tr        | 0.5        | Ang.  | 20          | 0.3        | -          | -          | -          | -                        | -          | -          | 8          | 100        | 0.2        | Ang.                | -                                 | -  | Poor         | 0.8        | Loose  |   |                   |
| HMI-5  | 10                                   | Shell fragment<br>biomicrite               | 46         | 100          | -         | 54         | 54      | 37      | 5-10       | Ang.  | 51             | 5-10        | Ang.  | -            | -          | 12        | 0.5        | Ang.  | -           | -          | -          | -          | -          | -                        | -          | -          | -          | -          | -          | -                   | -                                 | Poor   | 5-10         | Medium     |        |   |                   |
| NSGII-10   | 8                                    | Intraclastic biomicrite                    | 64         | 100          | -         | 36         | 18      | 24      | 2.0        | Rnd.  | tr             | 0.5         | Rnd.  | -            | -          | 66        | 0.5        | Rnd.  | -           | -          | 18         | 1.5        | -          | -                        | -          | -          | tr         | 100        | 0.1        | Ang.                | -                                 | -  | Poor         | 1.0        | Loose  |   |                   |
| NSGI-5   | 8                                    | Fossiliferous micrite                      | 94         | 100          | -         | 6          | 6       | tr      | 1.0        | Ang.  | 23             | 0.5         | Ang.  | -            | -          | 77        | 0.5        | Ang.  | tr          | 0.2        | -          | -          | -          | -                        | -          | -          | tr         | 100        | 0.1        | Ang.                | -                                 | -  | Poor         | 0.5        | Loose  |   |                   |
| BL-19  | 5                                    | Algal biomicrite                           | 73         | 100          | -         | 27         | 25      | 4       | 1.0        | Ang.  | 36             | 1.0         | Ang.  | -            | -          | 8         | 0.5        | Ang.  | 52          | 0.5        | 1          | 0.8        | 1          | 0.2                      | -          | -          | -          | -          | -          | -                   | -                                 | Poor   | 0.8          | Loose      |        |   |                   |
| WSII-4   | 4                                    | Fossiliferous,<br>pellet oospar            | 34         | -            | 100       | 66         | 16      | 12      | 0.5        | Rnd.  | 62             | 0.4-<br>0.5 | Rnd.  | -            | -          | 12        | 0.3        | Rnd.  | 14          | 0.3        | -          | -          | 22         | 0.3                      | 28         | 0.3        | -          | -          | -          | -                   | -                                 | -  | Very<br>good | 0.3        | Medium |   |                   |
| CP-129   | *                                    | Fossiliferous<br>intrasparite              | 42         | 16           | 26        | 58         | 15      | -       | -          | -     | 14             | 0.4         | Ang.  | 66           | 0.25       | 20        | 0.35       | Rnd.  | -           | -          | 43         | 0.35       | -          | -                        | -          | -          | -          | -          | -          | -                   | -                                 | Good to<br>poor  | 0.3          | Medium     |        |   |                   |
| BE-9   | **                                   | Clayey biomicrite                          | 52         | 96           | 4         | 18         | 16      | 43      | 0.2        | Ang.  | 25             | 0.4         | Ang.  | -            | -          | 13        | 0.2        | Ang.  | 19          | 0.3        | 2          | 0.3        | -          | -                        | -          | -          | 30         | -          | -          | -                   | 100                               | Mixed with<br>micrite  | Fair         | 0.3        | Loose  |   |                   |

\*Sample from Bull Creek Limestone Member of the Walnut Formation 12 feet above the Glen Rose Limestone on City Park road just northwest of Austin, Travis County (Moore, 1961, p. 23).

\*\*Sample from the Bee Cave Marl Member of the Walnut Formation 9 feet above the base of the Bee Cave, along Bee Cave road just west of Austin, Travis County (Moore, 1961, p. 29).