

125. MANGANESE NODULE (internal portion).—Station 285.  
 Lat. 32° 36' S., long. 137° 43' W., 2375 fathoms (Brazier).

|                                                  |   |                                              |       |
|--------------------------------------------------|---|----------------------------------------------|-------|
|                                                  |   | Loss on ignition after drying at 230° Fahr., | 13·60 |
| Portion soluble in Hydrochloric<br>Acid = 80·30  | } | Copper,                                      | trace |
|                                                  |   | Alumina,                                     | 9·50  |
|                                                  |   | Ferric oxide,                                | 18·98 |
|                                                  |   | Calcium phosphate,                           | trace |
|                                                  |   | Manganese oxide,                             | 13·98 |
|                                                  |   | Calcium sulphate,                            | trace |
|                                                  |   | Calcium carbonate,                           | 8·00  |
|                                                  |   | Magnesium carbonate,                         | 1·04  |
|                                                  |   | Silica,                                      | 33·80 |
| Portion insoluble in Hydrochloric<br>Acid = 6·10 | } | Alumina,                                     | 1·15  |
|                                                  |   | Ferric oxide,                                | 2·00  |
|                                                  |   | Lime,                                        | 0·45  |
|                                                  |   | Magnesia,                                    | 0·14  |
|                                                  |   | Silica,                                      | 2·36  |
|                                                  |   |                                              |       |

125A. MANGANESE NODULES.—Station 285.  
 Lat. 32° 36' S., long. 137° 43' W., 2375 fathoms (Brazier).

|                                                   |   |                                              |                                |            |
|---------------------------------------------------|---|----------------------------------------------|--------------------------------|------------|
|                                                   |   | Loss on ignition after drying at 230° Fahr., | 23·40                          |            |
| Portion soluble in Hydrochloric<br>Acid = 58·52   | } | =                                            | Copper, . . . . .              | good trace |
|                                                   |   |                                              | Alumina, . . . . .             | 8·15       |
|                                                   |   |                                              | Ferric oxide, . . . . .        | 12·75      |
|                                                   |   |                                              | Calcium phosphate, . . . . .   | 0·90       |
|                                                   |   |                                              | Manganese oxide, . . . . .     | 22·20      |
|                                                   |   |                                              | Calcium sulphate, . . . . .    | 0·75       |
|                                                   |   |                                              | Calcium carbonate, . . . . .   | 4·15       |
|                                                   |   |                                              | Magnesium carbonate, . . . . . | 0·14       |
| Portion insoluble in Hydrochloric<br>Acid = 18·08 | } | =                                            | Silica, . . . . .              | 9·62       |
|                                                   |   |                                              | Alumina, . . . . .             | 3·33       |
|                                                   |   |                                              | Ferric oxide, . . . . .        | 1·44       |
|                                                   |   |                                              | Lime, . . . . .                | 0·99       |
|                                                   |   |                                              | Magnesia, . . . . .            | good trace |
|                                                   |   |                                              | Silica, . . . . .              | 12·18      |
|                                                   |   |                                              | 100·00                         |            |

125B. MANGANESE NODULE (internal portion).—Station 285.  
 Lat. 32° 36' S., long. 137° 43' W., 2375 fathoms (Anderson).

|                                                   |   |                                             |                              |       |
|---------------------------------------------------|---|---------------------------------------------|------------------------------|-------|
|                                                   |   | Loss on ignition after drying at 100° C., . | 9·32                         |       |
| Portion soluble in Hydrochloric<br>Acid = 42·78   | } | =                                           | Alumina, . . . . .           | 9·17  |
|                                                   |   |                                             | Ferric oxide, . . . . .      | 13·90 |
|                                                   |   |                                             | Manganese dioxide, . . . . . | 10·46 |
|                                                   |   |                                             | Magnesia, . . . . .          | 0·57  |
|                                                   |   |                                             | Potash, . . . . .            | 1·84  |
|                                                   |   |                                             | Soda, . . . . .              | 2·15  |
|                                                   |   |                                             | Phosphoric acid, . . . . .   | 0·22  |
|                                                   |   |                                             | Silica, . . . . .            | 4·47  |
| Portion insoluble in Hydrochloric<br>Acid = 47·45 | } | =                                           | Alumina, . . . . .           | 3·65  |
|                                                   |   |                                             | Ferric oxide, . . . . .      | 3·00  |
|                                                   |   |                                             | Magnesia, . . . . .          | 0·89  |
|                                                   |   |                                             | Potash, . . . . .            | 0·68  |
|                                                   |   |                                             | Silica, . . . . .            | 39·23 |
|                                                   |   |                                             | <hr/> 99·55                  |       |

NOTE.—The material was white or brownish white, and was easily cut with a knife; it contained 14·95 per cent. of moisture, very light in weight, and fused into a blackish glass.