### RESOURCE

Candy Bar Geology

Field Note Descriptions

Cut out these geologic field-note style descriptions along the dotted lines and arrange them on a table. (Number sequence is not important.) Once students have sketched and described their samples, they will try to match them to one of these descriptions.

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| **1** | Sample is a thin layer. There is a golden matrix surrounding tan rounded or broken inclusions. The inclusions have a reddish brown rim or crust. |
| **2** | Sample consists mainly of white, soft rounded to angular blebs completely surrounded by a uniform dark brown matrix. |
| **3** | Sample is a solid dark brown dense mass with no obvious fusion crust. |
| **4** | Sample has a homogeneous light brown interior with a few small vesicles. The exterior looks like a fairly regular, dark brown fusion crust with some patterning. |
| **5** | Sample appears to have been distorted. The dominant phase is made of rounded light tan fragments containing many void spaces. A dark brown thin layer fills spaces between some rounded fragments. There are some large foreign inclusions. |
| **6** | Sample is totally dark brown with two phases. The dominant phase is shiny and crumbly. The other phase is dense and slightly lighter in color. A light fusion crust appears on only one side. |
| **7** | **Outside:** Thin medium-brown layer with ripple-marks on the bottom  **Inside:** Bottom - (~1/3) flat dense buff layer Top - (~2/3) pebbles consolidated in a fine grained tan matrix |
| **8** | **Outside:** Thin medium brown layer with wavy ripple marks on the bottom  **Inside:** Bottom - dense dark buff layer Top - shiny, smooth, medium tan layer |
| **9** | **Outside:** Medium brown layer, thin on the bottom, the thicker top contains angular inclusions  **Inside:** Thin alternating horizontal layers of smooth dark brown and fragmented dark brown |
| **10** | Dense medium brown sample, flat on the bottom with three parallel ridges on top. |
| **11** | **Outside:** Thin medium brown layer with wavy ripples on the bottom  **Inside:** Bottom - poorly consolidated light tan porous layer Top - shiny smooth medium tan layer |
| **12** | **Outside:** Thin medium brown layer  **Inside:** Poorly consolidated, friable, shiny to dull golden platy fragments |
| **13** | **Outside:** Medium brown layer, very thin on bottom and side, thicker on top with large wavy ripples  **Inside:** Thin dense layer of shiny light-golden unfractured material |
| **14** | **Outside:** Thin, medium brown, edges higher on outside of top, sides slanted  **Inside:** Smooth material that is yellowish brown and sticky |
| **15** | Four segments of layered material.  **Outside:** Thin, medium brown  **Inside:** Alternating light and medium colored material |
| **16** | Solid medium brown throughout, single dense layer with a valley or dip in the top. |
| **17** | Sample consists of unconsolidated pebbles with various colors and regular shape. Each individual pebble has a medium brown interior with a thin, hard colored shell. |
| **18** | Sample has a thin layer of dense brown material, containing very light inclusions at the bottom. The sample top has a depression in the middle with a ridge on each side. |
| **19** | Sample is a rectangular layer of rounded light pebbles surrounded by a thin coating of medium brown. Some yellowish brown sticky material is above the pebbles. |
| **20** | Sample interior consists of white, moist-looking fragments. These are surrounded by a dark brown exterior layer. |
| **21** | Irregular sample.  **Outside:** Bumpy medium brown  **Inside:** Yellow brown solid material resting on light tan fragments, some large tan fragments are found near the top |
| **22** | **Outside:** Dense layer of medium brown with a dip in the top  **Inside:** Light tan pebbles that have settled to the bottom |
| **23** | Dense sample of medium brown material, rounded on the top and flat on the bottom, with a few light brown pebble inclusions. |