

Title: Mud Volcano Exotics: Mineralogical and Physical Characteristics

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The word “exotic” means intriguingly unusual or different. For this project, this was observed in the form of rock fragments varying in size from pebbles to small boulders which constituted part of the ejecta of mud volcanoes. However, pertinent to the Piparo mud volcano, systematic characterization has not been performed in terms of mineralogy and physical characteristics. The project addressed this by utilizing powder x-ray crystallography and physical inspection to classify the various species found at the site. The results revealed a diversity of mineralogy with sandstone, calcite and siderite most abundant.