SUMMARY OF THE INVENTION

[0004a] In accordance with one aspect, there is provided a method for identifying matching properties between a group of bodies representing a geological structure and a table of properties, which comprises: identifying each inherent property in the table with a value that is identical to a value for an inherent property of one of the bodies in the group of bodies using a computer processor, wherein each body with an inherent property value that is identical to an inherent property value in the table represents a matching body; identifying each inherent property in the table with a value that is within a predefined tolerance of a value for an inherent property of one of the bodies in the group of bodies that is not a matching body using the computer processor, wherein each body with an inherent property value that is within the predefined tolerance of an inherent property value in the table and is not a matching body represents a related body; associating each inherent property value in the table that is identical to an inherent property value of one of the bodies in the group of bodies with the respective body representing a matching body; and associating each inherent property value in the table that is within the predefined tolerance of an inherent property value of one of the bodies in the group of bodies with the respective body representing a related body.

[0004b] In accordance with another aspect, there is provided a non-transitory program carrier device tangibly carrying computer-executable instructions for identifying matching properties between a group of bodies representing a geological structure and a table of properties, the instructions being executable to implement: identifying each inherent property in the table with a value that is identical to a value for an inherent property of one of the bodies in the group of bodies, wherein each body with an inherent property value that is identical to an inherent property value in the table represents a matching body; identifying each inherent property in the table with a value that is within a predefined tolerance of a value for an inherent

property of one of the bodies in the group of bodies that is not a matching body, wherein each body with an inherent property value that is within the predefined tolerance of an inherent property value in the table and is not a matching body represents a related body; associating each inherent property value in the table that is identical to an inherent property value of one of the bodies in the group of bodies with the respective body representing a matching body; and associating each inherent property value in the table that is within the predefined tolerance of an inherent property value of one of the bodies in the group of bodies with the respective body representing a related body.

[0004c] In accordance with yet another aspect, there is provided a non-transitory program carrier device tangibly carrying computer-executable instructions for identifying matching properties between a group of bodies representing a geological structure and a table of properties, the instructions being executable to implement: identifying each inherent property in the table with a value that is within a predefined tolerance of a value for an inherent property of one of the bodies in the group of bodies that is not a matching body, wherein each body with an inherent property value that is within the predefined tolerance of an inherent property value in the table and is not a matching body represents a related body; identifying each inherent property in the table with a value that is not within a predefined tolerance of a value for an inherent property of one of the bodies in the group of bodies, wherein each body with an inherent property value that is not within a predefined tolerance of an inherent property value in the table represents an unrelated body; and associating each inherent property value in the table that is within the predefined tolerance of an inherent property value of one of the bodies in the group of bodies with the respective body representing a related body.