**Summary of Files Provided for WVU DDU Project by Ronald McDowell**

**November 13, 2019**

This document is a readme file for the WVU Deep Direct Use Geothermal project work completed by Ronald McDowell (West Virginia Geological Survey). If you experience issues with any of the files, or have questions about them, please contact Ronald McDowell at mcdowell@geosrv.wvnet.edu.

**Software Requirement Note**

Proprietary software may be required to view some of the information provided. Microsoft Excel will be necessary to examine the permeability data and software capable of reading a .PDF file will be needed to view the file of annotated core CT scans. Microsoft Powerpoint will be necessary to view the photomicrograph presentation.

**Readme File Description Layout**

Items listed in this document are sorted by tab indentations and are described as follows:

**File:** Description

**Folder/Subfolder:** Content Description

**Preston-119\_FINAL\_core\_permeability\_illustrated.xlsx:** Excel spreadsheet containing experimental results of 2,260 samples of fracture and matrix permeability on core segments for well Preston 119. Includes measurements of fracture orientation, fracture length, and hyperlinked photographic images of individual core segments. NOTE: hyperlinked images are all resident in folder **/Preston\_119/permeability\_photos**.

**Tus\_XZ\_slices\_scaled\_Preston-119\_annotated.pdf:** Standard PDF file containingblack-and-white photographic images of individual core segments from well Preston 119. Each segment has a scale with the image. In addition, visible fractures have been annotated by tracing them in red.

**Clay\_513 Thin Section Photos\_RMcDowell.pptx:** Powerpoint slide presentation of colour photomicrographs taken of petrographic thin sections from well Clay 513. Seventeen (17) slides with scale and explanation of content – features of special interest have been annotated.

**/Preston\_119/permeability\_photos:** Collection of 335 colour JPG images of the permeability sampling locations for each individual core segment from well Preston 119 examined for fracture permeability. NOTE: these images are referenced by hyperlink in file and this folder/subfolder arrangement and naming convention must be maintained for hyperlink access to work correctly from the Excel file.