ReadMe file for set of .csv files for effective porosity data 6 wells used for reservoir model

File name structure: Well API + Porosity Type #Shale Neutron Porosity Percentage + File Indicator

The Well API numbers are found in the well tops and locations spreadsheets.

The porosity type is EPOR, calculated effective porosity

The shale neutron porosity was either 0, 6, or 12, corresponding to 0, 6, or 12%

(these variations are used to explore the sensitivity of the EPOR to the uncertainty on true porosity in shale); described in detail in J. Smith [2019 Cornell dissertation] p. 255-257)

The file indicator ranges from 1 – 6, and each well has exactly one of each indicator. All of the 1s correspond to the same type of file, all the 2s the same type, etc.

These files contain columnar data

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| Column | Definition and units |
| Sequential number | order in file |
| DEPTH | depth in feet below datum of borehole |
| GR | gamma ray value, on scale of 0-200 |
| NPHI | neutron porosity, reported as fraction of total rock volume |
| DENSITY | grams per centimeter cubed (g/cm3) |
| PEF | photoelectric factor, reported in barns per electron (b/e) |
| LITH | assigned lithology: 1 = dolomite, 2= Limestone, 3= sandstone |
| VSHALE | fractional volume of shale in the entire rock |
| DPHI | density porosity, expressed as a fraction of total rock volume |
| EPOR0 | Effective porosity, which adjusts neutron porosity log values for the effects of shale and gas, using equations from Bassiouni (1994) |