LOWER CLEAR FORK - WICHITA MINERALOGY
KEYSTONE SOUTH CLEAR FORK FIELD, WINKLER COUNTY, TEXAS

LOWER CLEAR FORK

- The Middle Permian Lower Clear Fork formation is a carbonate-dominated section that alternates with black shale and coal. The formation is divided into two parts: the Lower Clear Fork (LFCF) and the Upper Clear Fork (UCF). The LFCF is characterized by middle to upper Leonardian age, while the UCF is of upper Leonardian age.

WICHITA

- The Wichita is composed of a lower detrital-dominated section (ST) and deposits of the lower Forth, followed by a middle section of peloidal packstones and bioclastic packstones. Finally, the upper section contains higher porosity limestone. The Wichita is of Leonardian age and is typically productive in the southwestern part of the field.

EXPLANATION

- Mineralogy
  - Limestone: generally low porosity and permeability
  - Dolostone: generally higher porosity and permeability

- Core Facies
  - Tuff
  - Mudstone
  - Pelletal wackestone-packstone
  - Pelletal packstone
  - Pelletal grain-dominated packstone
  - Bioclastic grain-dominated packstone
  - Bioclastic packstone
  - Bioclastic grain-dominated packstone
  - Tuffaceous packstone
  - Graded wackestone

- Correlations
  - Exposed cycle top
  - Subsurface cycles
  - Correlation marks

Map supplied by David McMahon

Pattern in mineralogy and porosity

CORRELATION MARKER

- BLK. B2
  - Siltstone/sandstone
  - Peloid packstone