MAP OF SOUTH-CENTRAL KANSAS

showing regional joint patterns in any given area in relation to stratigraphy and subsurface structures.

By John R. Ward

EXPLANATION

- Ptn
  - Occurrence location and symbol
- Rose diagram
  - Radial of direction from center, labeled with rocks and numbers
- Genetical unit exposed
- Lower Pennsylvanian Series
  - Ptn: Hollingurring Limestone Member of Wellington Formation
  - Ptn: Marquette Limestone Member of Neosho Limestone
  - Ptn: Windfield Formation
  - Ptn: Towanda Limestone Member of Dolly Shale
  - Ptn: Felt Limestone Member of Desoto Limestone
  - Ptn: Hopkinton Limestone Member of Caraway Limestone
  - Ptn: Westfield Limestone
  - Ptn: Cottowood Limestone Member of Beaufort Limestone
  - Ptn: Nuck Limestone Member of Granada Limestone
  - Ptn: Finseker Limestone
- Upper Pennsylvanian Series
  - Ptn: Dover Limestone Member of Stoughton Limestone
  - Ptn: Reading Limestone Member of Emporia Limestone
  - Ptn: Butterfield Limestone Member of Ben Limestone
  - Ptn: Howard Limestone
  - Ptn: Tabako Limestone
  - Ptn: Dale Creek Limestone
  - Ptn: Lecompton Limestone

APPROXIMATE MEAN DECLEINATION, 1955

0 1 2 3 4 5 6

Horizontal scale in miles

COWLEY COUNTY

KANSAS

OKLAHOMA