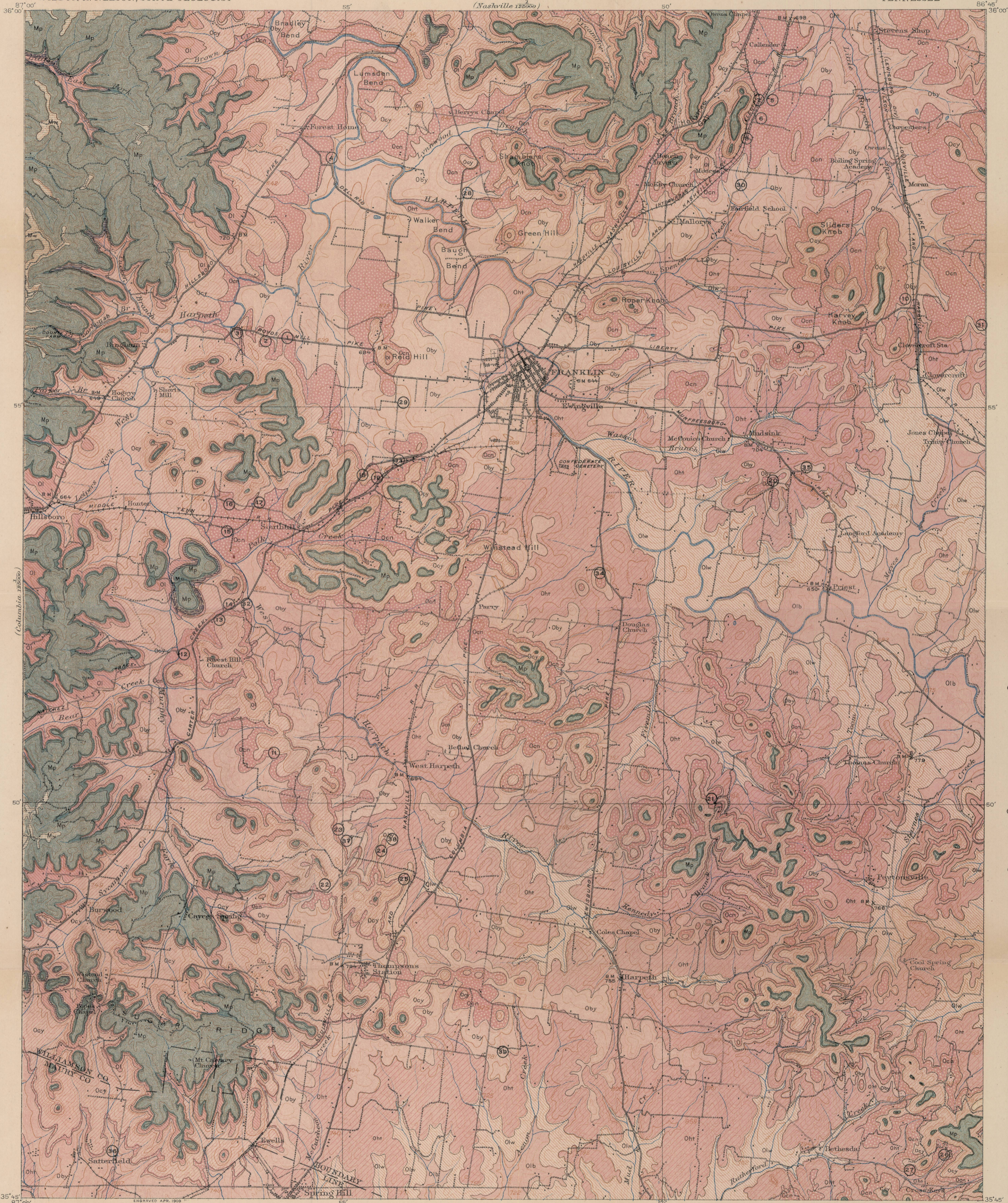


TENNESSEE GEOLOGICAL SURVEY  
WILBUR A. NELSON, STATE GEOLOGIST

AREAL GEOLOGY

FRANKLIN QUADRANGLE  
TENNESSEE



LEGEND

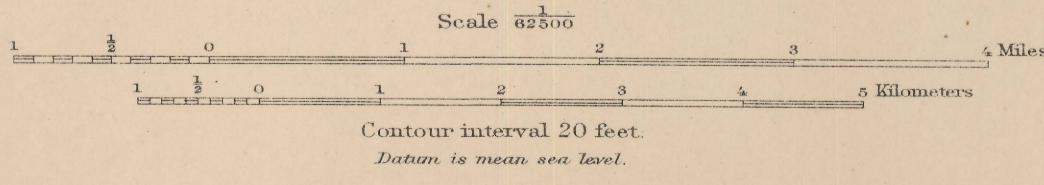
- SEDIMENTARY ROCKS**
- Warsaw limestone  
(Gray and blue, heavy-bedded, cherty limestone)
  - Fort Payne chert  
(Extremely cherty shale and limestone)
  - New Providence shale  
(Bluish clay shale with lenses of massive, irregular limestone)
  - Chattanooga and Ridgely shales  
(Carbonaceous black shale (Chattanooga) below and greenish clay shale (Ridgely) above)
  - Osgood limestone  
(Even-bedded, compact, light-gray or bluish limestone)
  - Pennvale formation  
(Soft, green or chocolate shale with bands of crystalline limestone)
  - ? Wayneville formation  
(Blue-granular crystalline limestone and interbedded shale) Probably Archaean
  - Leipers formation  
(Knotty, earthy limestone and interbedded shale, or granular crystalline limestone without shale)
  - Cathey's formation  
(Knotty, earthy limestone and shale with heavy bands of impure, blue limestone)
  - Cannon limestone  
(Massive, pure, dove-gray, and crystalline, blue, cherty limestone)
  - Highby limestone  
(Finely granular, crystalline, laminated, phosphatic limestone)
  - Hermitage formation  
(Even-bedded shale with siliceous limestone lenses and siliceous, granular, phosphatic limestone above)
  - Lowville limestone  
(Massive, compact, white or light-blue, cherty limestone with thin-bedded, dove limestone layers at top)
  - Lebanon limestone  
(Thin-bedded, compact, bluish or dove-colored limestone)
- Phosphate localities**
- 22

MISSISSIPPIAN

SILURIAN

ORDEVICIAN

GEOLOGIC MAP OF THE FRANKLIN QUADRANGLE, TENNESSEE



Geology by R. S. Bassler  
Surveyed in 1921, 1922

Phosphate located by Richard W. Smith

TO 1925

LATER LOCATIONS DESCRIBED IN  
TEXT BUT NOT SHOWN ON  
THIS MAP

APPROXIMATE MEAN  
DECLINATION 1907

Base is the Franklin  
topographic map of the  
U. S. Geological Survey

ENGRAVED APR. 1909

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