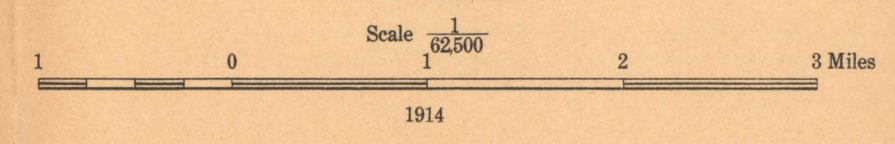


RECONNAISSANCE GEOLOGIC MAP
OF THE
GRANDFIELD DISTRICT, OKLAHOMA
BY M. J. MUNN



EXPLANATION
The attention of users of this map is called especially to the fact that it is the result of a rapid reconnaissance examination of the Grandfield district and is therefore more or less incomplete in detail and very probably contains many minor inaccuracies. The character of the rocks exposed and the distribution of recognizable Permian strata in this district are such as to render it impossible to prepare an accurate structural map in the time that was available for this work. It is believed, however, that the mapping of the general structural features as shown by the contours is fairly accurate and may be used safely by operators as a general guide in making tests for oil and gas.

- Soil, sand, clay, and gravel
- Aluvium
(Red clay, silt, fine sand, and local deposits of gravel)
- Sand dunes
(Include local beds of quartz gravel at base)
- Tertiary or Quaternary
Pleistocene
- Grandfield conglomerate
(Conglomerate of quartz and quartz pebbles in reddish matrix, with some chert, limestone, and sandstone fragments)
- Wichita formation
(Largely red clay with layers of white and red sandstone and soft clay-limestone conglomerates)
- Permian
Important sandstone and conglomerate beds in the Wichita formation, including Auger conglomerate lentil
- Structure contours based on elevations of clay-limestone conglomerates in Auger conglomerate lentil of Wichita formation (Because of irregularity of the conglomerate beds there may be an error 10 feet or less)
- Elevations above sea level of Grandfield conglomerate in Auger conglomerate lentil (Determined chiefly by spirit level, estimated elevations indicated by *)
- Strike and dip
- Well (unproductive)
- Well (drilling)

