DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE OKLAHOMA CORPORATION COMMISSION
AND OKLAHOMA WATER RESOURCES BOARD

HYDROLOGIC INVESTIGATIONS
ATLAS HA-223 (SHEET 2 OF 2)

Base from Army Map Service 1:250,000 Series:
Oklahoma City and Ardmore, 1948

ALTITUDE OF THE BASE OF FRESH GROUND WATER IN SOUTHCENTRAL OKLAHOMA

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

MAP EXPLANATION

Altitudes of base of fresh water shown by ranges

- 500-1,000
- (−500) −0
- 0-500
- (−1,500)−0
- Igneous rock — *Contain small amounts of fresh water at shallow depths*

1000 / 900 — Contours on the base of fresh water — *Dashed where inferred; contour interval 100 feet; datum is mean sea level*

- Control point
- Guide point (not positive control)
- \+ Fresh water well

SECTION EXPLANATION

- Pb — Blaine Gypsum of El Reno Group
- Pf — Flowerpot Shale of El Reno Group
- Pe — El Reno Group of Permian age, undifferentiated
- Ph — Hennessey Shale of Permian age
- Pgwo — Garber Sandstone of Permian age and Wellington Formation and older rocks of Early Permian age
- Pwi — Wichita Formation of Early Permian age
- Pr — Rocks of Pennsylvanian age undivided
- Pv — Vanoss Formation of Late Pennsylvanian age
- Pl — Lecompton Limestone of Late Pennsylvanian age
- Pva — Vamoosa Formation of Late Pennsylvanian age
- Ph — Hilltop Formation of Late Pennsylvanian age
- Ps — Skiatook Group of Late Pennsylvanian age
- Pm — Marmaton Group of Middle Pennsylvanian age
- Geologic contact

GENERALIZED SECTIONS SHOWING BASE OF FRESH WATER AND OUTCROPPING PENNSYLVANIAN AND PERMIAN ROCKS

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BASE OF FRESH GROUND WATER IN SOUTHERN OKLAHOMA

By
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1966