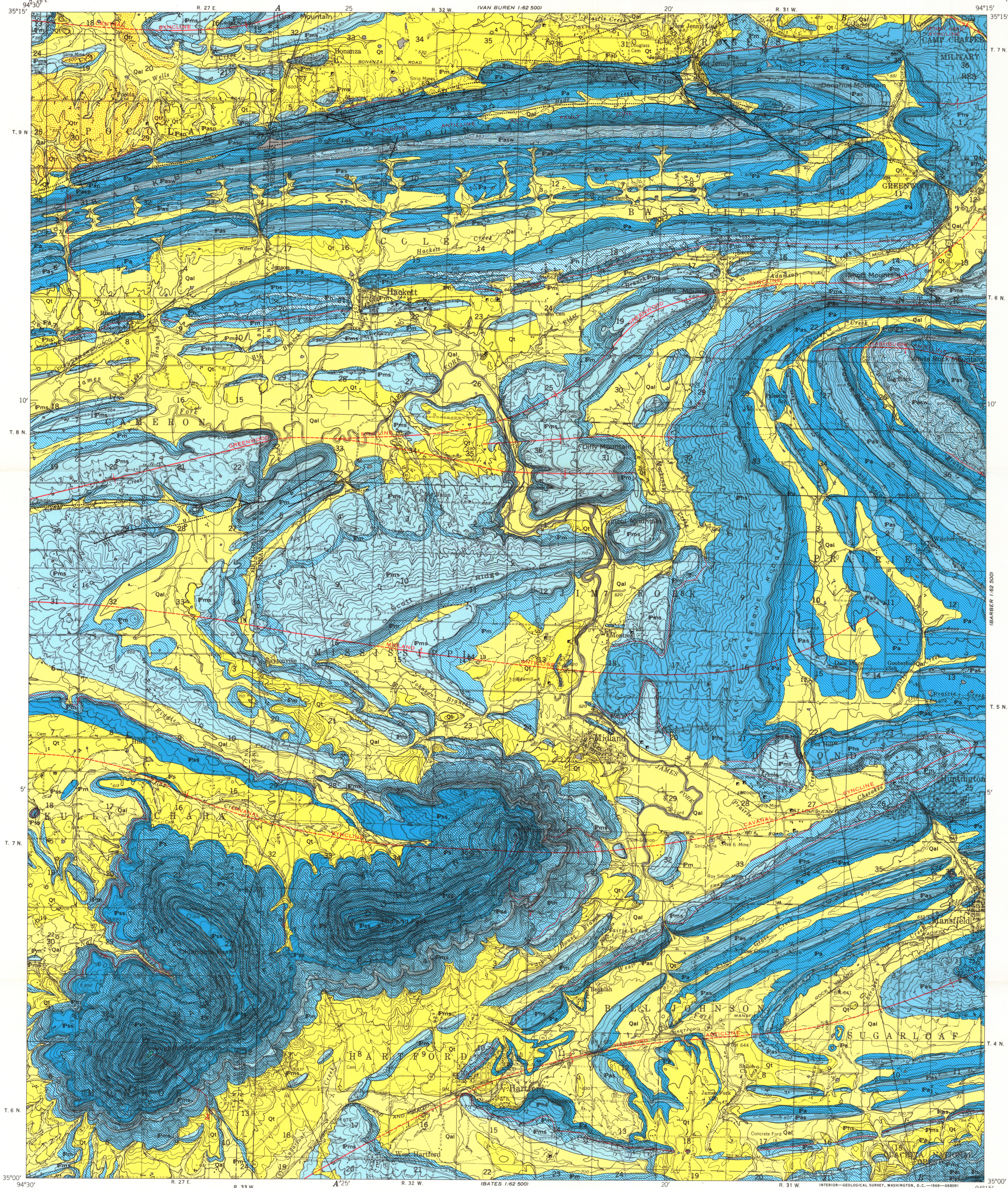
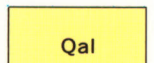
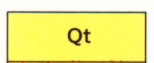




EXPLANATION

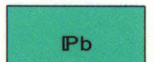


Alluvium
Deposits along stream channels. In some places
includes parts of the lowermost terrace



Terrace deposits
Alluvial deposits on two terrace levels
Qt, stream terrace deposits
Qtr, river terrace deposits

UNCONFORMITY



Boggy Formation
Only the basal sandstone is present in the
mapped area



Savanna Formation
Alternating units of predominant shale or predominant
sandstone
Pa, shale, siltstone, and thin beds of silty sandstone
Pss, sandstone, silty sandstone, or interbedded sand-
stone, siltstone, and shale



McAlester Formation
Alternating units of predominant shale or predominant
sandstone
Pm, shale, siltstone, and thin beds of sandstone or silty
sandstone
Pms, sandstone, silty sandstone, or interbedded sand-
stone, siltstone, and shale



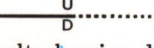
Hartshorne Sandstone
Alternating units of predominant shale or predominant
sandstone
Ph, shale, siltstone, and thin beds of sandstone or silty
sandstone
Phs, sandstone, silty sandstone, or interbedded sand-
stone, siltstone, and shale



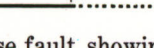
Atoka Formation
Alternating units of predominant shale or predominant
sandstone
Pa, shale, siltstone, and thin beds of sandstone or silty
sandstone
Pas, sandstone, silty sandstone, or interbedded sand-
stone, siltstone, and shale
Pasw, sandstone, silty sandstone, or interbedded sand-
stone, siltstone, and shale; zone W
Psp, shale, siltstone, and thin beds of sandstone or silty
sandstone; zone P
Pasp, sandstone, silty sandstone, or interbedded sand-
stone, siltstone, and shale; zone P

Contact

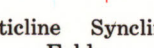
Dashed where approximately located



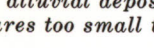
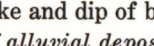
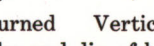
Fault, showing dip
Dotted where concealed. U, upthrown side; D,
downthrown side



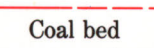
Reverse fault, showing dip
Dotted where concealed. T, designates upper
plate



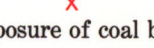
Showing trace of axial plane. Dashed where inferred



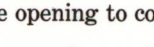
Strike and dip of beds



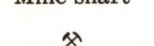
Coal bed
Dashed where approximately located



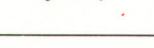
Exposure of coal bed



Surface opening to coal bed



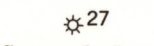
Mine shaft



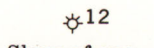
Quarry



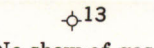
Structural section shown on plate 4



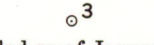
Stratigraphic section shown on plate 2



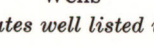
Gas producing



Show of gas



No show of gas



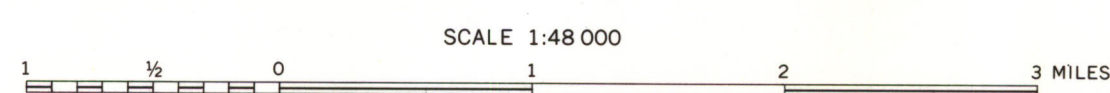
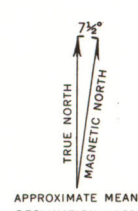
Being drilled as of January 1, 1964



Wells

Number designates well listed in table in text

GEOLOGIC MAP OF GREENWOOD QUADRANGLE, SEBASTIAN COUNTY, ARKANSAS
AND LE FLORE COUNTY, OKLAHOMA



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Geology by Boyd R. Haley and
Thomas A. Hendricks, 1934 and 1960