



EXPLANATION

- Unit 9**
Well yields as much as 2,000 gpm of water from sands and gravels which are normally covered by silt and clay. This excludes the alluvium along Fourche Creek and the Saline River where prospects are poor
- Unit 8**
Gray, green, bluish, cream, and ocher silty clay, locally interbedded with brown carbonaceous clay and thin lignite beds; some medium to coarse sand. Well yields unpredictable
- Unit 7**
Continental tan or gray fine to medium sand as much as 100 feet thick containing layers and lenses of gray silty clay; a bed of woody lignite at the base locally. Maximum well yields in report area are unknown, but yields as much as 800 gpm reported in Grant County
- Unit 6**
Dark-chocolate-brown silty to sandy clay containing scattered lignite and siderite layers; grades upward into dark-brown medium to coarse sand. Basal gravel and coarse sand fringe highlands. Well yields are unpredictable
- Unit 5**
Greenish- to bluish-gray silty clay and grayish-green fine sand alternating with lignite and brown carbonaceous clay. Water prospects poor
- Unit 4A**
Nature of materials unknown, but well yields very low. Test drilling advisable
- Units 3 and 4**
Dark-bluish-gray to black silty clay overlying greenish-gray and dark-gray clay, marl, sandy limestone, and sandstone. Well yields as much as 250 gpm obtainable from the limestone and sandstone
- Unit 2**
Light-gray or bluish igneous rocks. Does not yield water to wells
- Unit 1**
Sandstones, shales, slate, novaculite, and chert. Well yields normally 10 gpm or less, although cherts have yielded 200 gpm in Garland County. Well yields dependent on local conditions

QUATERNARY
TERTIARY
CRETACEOUS
ORDOVICIAN TO PENNSYLVANIAN

AREAL EXTENT OF UNIT 3 IN THE COASTAL PLAIN

- Present at surface and in subsurface
- Presence and nature indeterminate in subsurface
- Absent in subsurface
- Streamflow measurement site
Number refers to table in text
- Contact between surficial units
- Contact between subsurface areas of unit 3



GEOHYDROLOGIC MAP OF PULASKI AND SALINE COUNTIES, ARKANSAS

Base from Arkansas Highway Dept. county maps

Surficial geology after Arkansas Geological Survey (1929), and Gordon, Tracey, and Ellis (1958)
Areal extent of Unit 3 modified from Gordon, Tracey, and Ellis (1958)