

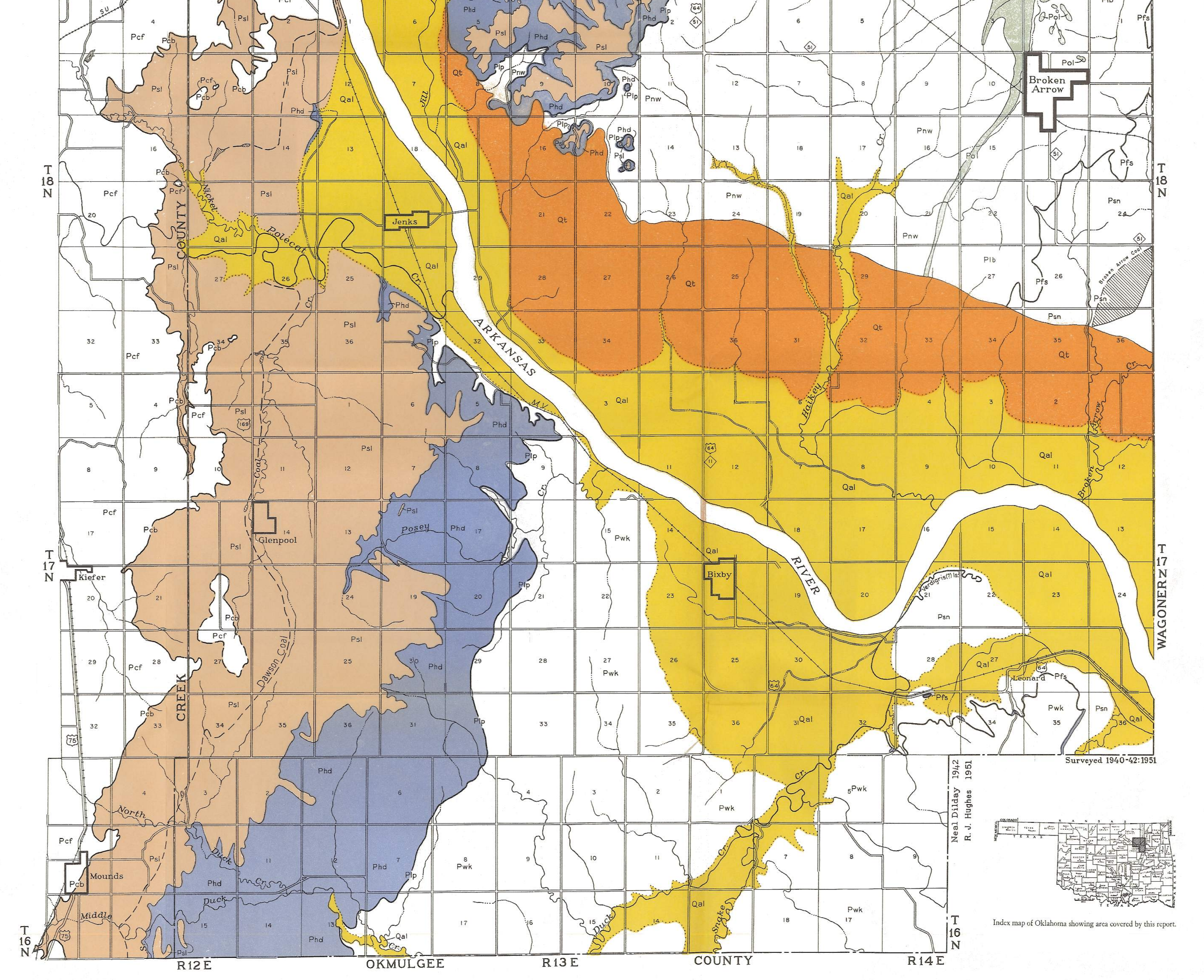
**GEOLOGIC MAP
OF
TULSA COUNTY, OKLAHOMA**

BY
MALCOLM C. OAKES
1952

INCLUDES PARTS OF ADJACENT COUNTIES
SCALE:
0 1 2 3 4 5
MILES

EXPLANATION

<p>QUATERNARY SYSTEM</p> <p>Recent alluvium</p> <ul style="list-style-type: none"> Qal Alluvium (Sand, silt, and clay on flood plains of the larger streams) Qt Terrace deposits (Sand, silt, and clay on terraces. Includes some sandstone deposits) Pv Virgil Series (Unconsolidated) Pt Tallant Formation (Unconsolidated. Similar to the Osage County, contains the Big Horn sandstone member at the base and the Brown sandstone member near the middle) Pp Bransford Formation (Clay sandstone, shaly, fine to coarse. Unconformably on the base and the Brown sandstone member near the middle) Pw Wann Formation (Unconsolidated. Contains the Cimarron sandstone member in the lower part) Pk Kola Formation (Shows north of Arkansas River by a single heavy black line, open to indicate good exposures. Top and base shown separately south of Arkansas River) Pch Chanute Formation (Shale and sandstone) Pb Dewey Formation (Shows north of Arkansas River by a single heavy black line, open to indicate good exposures. Top and base shown separately south of Arkansas River) Pbl Nellie Bly Formation (Shale, contains conglomerate sandstones, some of which are chert) <p>MISSOURI SYSTEM</p> <p>Missouri series</p> <ul style="list-style-type: none"> Hok Hokoshooter Formation (Generally shown by a single heavy black line, open to indicate good exposures. Top and base shown separately south of Arkansas River and in extreme north part of Tulsa County) Cof Coffeeville Formation (Shale and limestone sandstone) Chk Chickasha Limestone (Shown by a single heavy black line, open to indicate good exposures) Ssm Seminole Formation (Sandstone and shale. Devonian coal shown by a single heavy black, dotted line) Hol Holdenville (Memorial) Shale (Contains sandstone, shales, and a few local limestones) Lns Lenafah Limestone (Shown by a single heavy black line, open to indicate good exposures. Exposed to opposite Weverka Formation) Nws Nowata Shale (Shale and sandstone) Olo Oologah Formation (Limestone with some exposures of chert, silt, and shale) Lsh Lanette Shale (Shale and sandstone) Fsl Fort Scott Limestone (Generally shown by a single heavy black line, open to indicate good exposures) Snd Seneca Formation (Unconsolidated. Contains the Broken Arrow and was shown by one stopped area) <p>MISSOURI SYSTEM</p> <p>Missouri series</p> <ul style="list-style-type: none"> Wv Weverka Formation (Mapped south of Arkansas River. In chert exposures of Weverka shale and Calvin sandstone at base) 	<p>Area from which coal has been stripped</p> <p>Outline of coal bed</p> <p>U D U-updown U-updown</p> <p>U. S. Highway</p> <p>State highway</p> <p>Road</p> <p>Railroad</p>
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Surveyed 1940-42-1951
Revised 1952
R. C. Rogers, 1952
Index map of Oklahoma showing area covered by this report.