

EXPLANATION

QUATERNARY

ALLUVIUM
 Sand, silt, and clay on flood plains of present streams. Includes some eolian deposits.

TERRACE DEPOSITS
 Sand, silt, and clay deposited by Arkansas River. Includes some eolian deposits.

GARBER SANDSTONE
 Fine-grained sandstone beds at base; thin units of sandstone and dolomite in predominantly red claystone section. Approximately 150 feet of lower part of formation crops out in Noble County.

QUATERNARY
 Cimarron Series

PENNSYLVANIAN
 Geary Series

OSCAR GROUP¹

Pu ¹	70 feet thick
Pu ²	100 feet above base
Pu ³	120-170 feet thick
Pu ⁴	100 feet above base
Pu ⁵	110 feet thick
Pu ⁶	30 feet exposed thickness

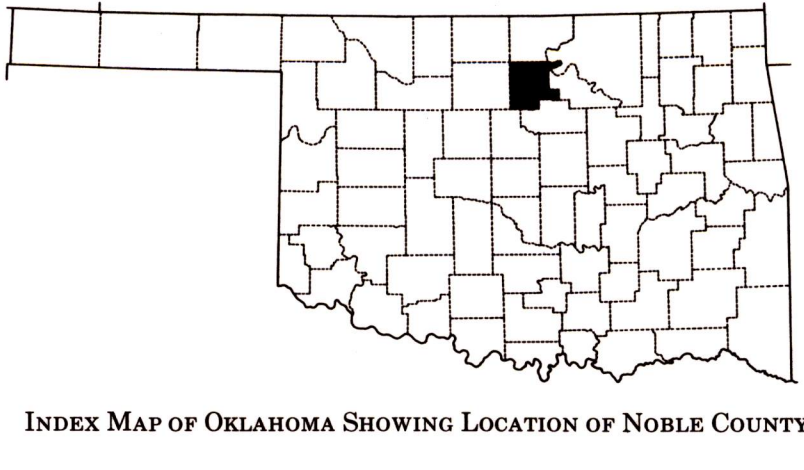
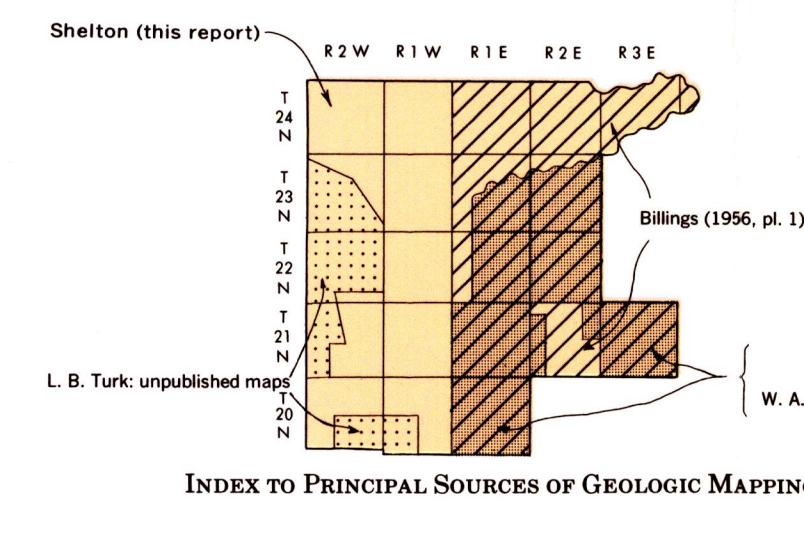
WELLINGTON FORMATION Pw
 Red claystone with lenticular sandstones (some of which are noted below), thin beds of dolomite, and variegated shale. Sandstone beds and total thickness of sandstone increase southward. Total thickness of formation is about 800 feet. Three key beds—Pw₁, Pw₂, and Pw₃—divide formation into four units (Pw₁, Pw₂, Pw₃, and Pw₄). The lower and middle sandstone beds, Pw₁ and Pw₂, are associated locally with dolomites. The upper sandstone bed, Pw₃, lies in a variegated section; it overlies several thin, persistent beds of dolomite. The following unnamed units are recognized (intervals given are approximate):

Pw ₆₇₀	Sandstone, 670 feet above base
Pw ₆₅₀	Sandstone, 650 feet above base
Pw ₆₂₀	Sandstone, 620 feet above base
Pw ₆₀₀	Upper key bed, 600 feet above base
Pw ₅₄₀	Sandstone, 540 feet above base
Pw ₄₅₀	Sandstone, 450 feet above base
Pw ₄₁₀	Sandstone, 410 feet above base
Pw ₄₀₀	Sandstone, 400 feet above base
Pw ₃₇₀	Sandstone, 370 feet above base
Pw ₃₅₀	Sandstone, 350 feet above base
Pw ₃₃₀	Sandstone, 330 feet above base
Pw ₃₁₅	Sandstone, 315 feet above base
Pw ₃₀₀	Sandstone, 300 feet above base
Pw ₂₈₀	Middle key bed, 280 feet above base
Pw ₂₆₅	Sandstone, 265 feet above base
Pw ₂₂₀	Sandstone, 220 feet above base
Pw ₁₆₀	Sandstone, 160 feet above base
Pw ₁	Lower key bed, 120 feet above base

CONTACTS: Dashed where inferred.

STRUCTURE: Contours, in feet, of top of Herrington Limestone; dashed where datum projected; contour interval, 20 feet.

PROSPECTS: Ba Barite prospect, Cu Copper prospect, Pb Lead prospect, S Shale pit, M Road-metal quarry.



GEOLOGIC MAP OF NOBLE COUNTY, OKLAHOMA

By John W. Shelton 1979

