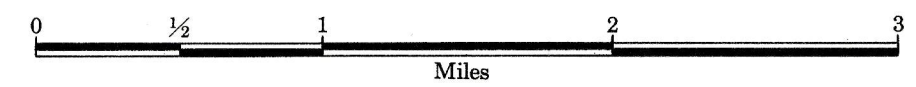


**GEOLOGIC MAP
OF
NORTHEASTERN CHEROKEE COUNTY
OKLAHOMA**

by
J. M. Starke, Jr.
1961



EXPLANATION

QUATERNARY

Platocene and Recent

Qal

ALLUVIUM

(Sand, silt, and clay on flood plains of present streams.)

TERRACE DEPOSITS

(Gravels, sand, silt, and clay. Largely fluvial in origin but locally includes colluvium.)

Qt

CLUSTERIAN

Mf

FAYETTEVILLE FORMATION

(Black fissile shale and gray lithographic limestone. Estimated thickness: 30 to 40 feet.)

Mh

HINDSVILLE FORMATION

(Gray medium-crystalline oolitic fossiliferous limestone, locally shaly at base. Thickness: 0 to 20 feet.)

MISSISSIPPIAN

Meramec

Mm

MOOREFIELD FORMATION

(Thickness: 0 to 10 [?] feet, exposed as isolated remnants. Divided into following members not separately mapped: upper brown calcareous siltstone and shale [Ordinance Plant member] and lower brown to black argillaceous limestone [Bayou Manard member].)

OSAGEAN

Mkr

KEOKUK AND REEDS SPRING FORMATIONS

(Keokuk is white massive chert, 70 to 80 feet thick; underlain by Reeds Spring blue-gray limestone and interbedded tan chert 150 to 200 feet thick.)

MSj

ST. JOE GROUP

(Thickness: 0 to 80 feet. Divided into following units not separately mapped: gray nodular-weathering crinoidal limestone [Purson equivalent]; green marly shale [North-views equivalent]; and lower gray nodular-weathering limestone [Compton equivalent].)

DEVONIAN

Kindredhookian

MDe

CHATTANOOGA FORMATION

(Divided into black, pyritic, fissile shale [Noel member] 30 to 40 feet thick, and underlying white to yellow friable sandstone [Sylvan member] 0 to 12 feet thick.)

ORDOVICIAN

Chamberlainian - Cincinnati

Ob

FERNVALE, FITE, AND TYNER FORMATIONS

(Fernvale is gray coarsely crystalline fossiliferous limestone 0 to 12 feet thick; Fite is gray, lithographic limestone 0 to 10 feet thick; Tyner formation consists of green waxy shale and interbedded dolomite 0 to 70 feet thick.)

Ob

BURGEN FORMATION

(White to yellow-brown iron-stained friable sandstone. Thickness: approximately 100 feet.)

Ob

COTTER FORMATION

(Gray to buff thick-bedded sandy and locally cherty dolomite. Exposed thickness: 15 feet.)

D

U

FAULT

Dotted where concealed, dashed where inferred.

U, upthrown side

D, downthrown side

Contacts of alluvium and terrace deposits

Strike and dip of beds

U. S. highway

State highway

Paved road

Improved road

Unimproved road

