GEOLOGIC MAP OF NORTHERN ADAIR COUNTY OKLAHOMA

by

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1966

0 ½ 1 2 3
Miles

EXPLANATION

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

Qt — TERRACE DEPOSITS
(Gravels, sand, silt, and clay. Largely fluvial but locally includes colluvium and eolian material.)

PENNSYLVANIAN — QUATERNARY

Morrowan

Ph — HALE FORMATION
(Brown, massive, calcareous sandstone; weathers pitted; caps outliers. Thickness 0 to 53 feet.)

Mp — PITKIN FORMATION
(Dense, blue-gray, nodular-weathering, fossiliferous limestone; present only in southeastern part of area. Thickness 0 to 4 feet.)

Chesterian

Mfw / Mf — FAYETTEVILLE FORMATION
(Black, fissile shale with Wedington Sandstone Member [Mfw] near top. Thickness 125 to 200 feet.)

Mh — HINDSVILLE FORMATION
(Gray, medium-crystalline, fossiliferous limestone. Thickness 10 to 45 feet.)

Meramecian

Mm — MOOREFIELD FORMATION
(Divided into following members not mapped separately: Ordnance Plant Siltstone, Lindsey Bridge Calcarenite, Bayou Manard Limestone Thickness 0 to 45 feet.)

Mkr — KEOKUK AND REEDS SPRING FORMATIONS
(Keokuk is white, massive chert and gray, cherty limestone [50 to 70 feet] underlain by Reeds Spring blue-gray limestone and interbedded tan chert [100 to 150 feet].)

MISSISSIPPIAN

Osagean

Msj — ST. JOE GROUP
(Divided into following units not mapped separately: gray, thin-bedded, crinoidal, reefoid limestone [Pierson], green, shaly limestone [Northview ?] and gray, nodular-weathering limestone [Compton ?]. Thickness 0 to 58 feet.)

Senecan to Kinderhookian

MDcn / MDcs — CHATTANOOGA FORMATION
(Black, pyritic, fissile shale [Noel Member, MDcn] and underlying gray to yellow phosphatic sandstone [Sylamore Member, MDcs]. Thickness 40 to 84 feet.)

DEVONIAN

Champlainian – Cincinnatian

Off — FERNVALE, FITE, AND TYNER FORMATIONS
(Fernvale is gray, coarsely crystalline limestone [0 to 15 feet], Fite is white lithographic limestone [0 to 5 feet], Tyner is green and brown shale and dolomite [0 to 46 feet].)

Ob — BURGEN FORMATION
(White to yellow, iron-stained, friable sandstone. Thickness approximately 75 feet.)

Canadian

Oc — COTTER FORMATION
(Light-gray, thick-bedded, fine-grained dolomite. Exposed thickness 11 feet.)

ORDOVICIAN

FAULT — U, upthrown side; D, downthrown side; Dashed where inferred; Dotted where concealed

FORMATION CONTACT — Dashed where inferred

Alluvium and terrace

ANTICLINAL AXIS

Strike and dip of beds

62 U. S. Highway

10 State Highway

Paved road

Improved road

Unimproved road

R 24 E — R 25 E — R 26 E

T 19 N — T 18 N — T 17 N

CHEROKEE COUNTY — DELAWARE COUNTY

ARKANSAS