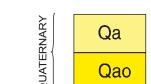
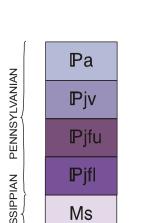


GEOLOGIC MAP OF THE BAKER MOUNTAIN 7.5' QUADRANGLE LATIMER COUNTY, OKLAHOMA

Neil H. Suneson and Charles A. Ferguson Digitized by Jacob Hernandez, 2014

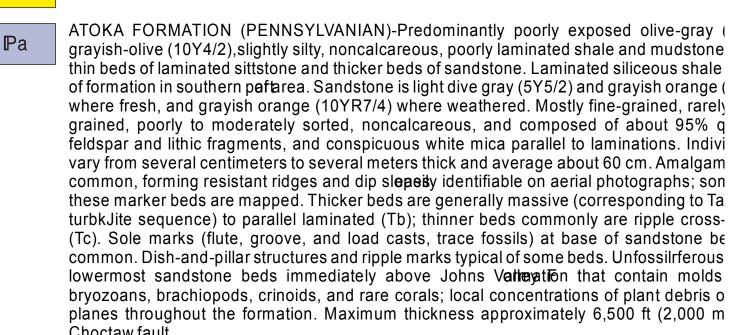
CORRELATION OF MAP UNIT





DESCRIPTION OF UNITS

Qa ALLUVIUM (QUATERNARYJ-Unconsdidated sit, sand, and gravel of present stream chan OLDER ALLUVIUM (QUATERNARY)--Unconsdidated silt, sand, and gravel above prese



JOHNS VALLEY FORMATION (PENNSYLVANIAN)-Predominantly poorly exposed, mec gray (N4) to pale-brown (5Y5/2), mostly noncalcareous, poorly laminated, slightly silty mudstone. Contains thin beds of noncalcareous laminated siltstone and thin- tebended sandstone. Sandstones mostly light brown (5Y6/4) to grayish orange (10YR7/4), varying fr coarse-grained, with rare granule conglomerates, rarely calcareous or fetid, and massive or ripple cross-laminated. Sole marks and dish-and-pillar structures typical of some be sandstone marker beds mapped. Shale locally contains slightly- to well-rounded pebbles and boulders of chert and a wide variety of limestone lithologies (micrites to biodastices) and packstones). Other lithologies within the shale include large masses of platy to very fis grayish-black (N2) shale with calcareous concretions, phosphatic(?) nodules, and dispyrite. Limestone dasts have been correlated with lower and middle Paleozoic limes exposed to the north and west; chert clasts may be Woodford Formation (Devonian); and m shale masses may correlate with the Caney Formation (Mississippian). Maximum approximately 1,700(500 m) south of Choctaw fault

JACKFORK GROUP, UPPER AND LOWER PARTS (PENNSYLVANIAN)-Predomina exposed, grayish-orange (10YR7/4), yellowish-gray (5Y7/2) to dusky-yellow (5Y6/4 medium-grained, quartzose, noncalcareous, and massive or slightly graded to poorly sandstone, with variable amounts of interbedded, poorly exposed medium-gray (N5) to Y3/2) shale and mudstone. Locally contains many thick-bedded (1-10 m), massive : beds in amalgamated shale-poor sequences locally tens of meters thick. Sole marks, dis pillar structures, ripple marks, and mud rip-up dasts typical of some beds. Locally fossilrferous (molds of crinoids and brachiopods), or with abundant impressions of plant bedding planes. Sandstone marker beds mapped locally. Sandstones commonly highly Shale and mudstone contain thin, laminated siltstone layers and locally weather to "pencil" Upper part (Pjfu) correlates with GamtuRe and Wesley Formations of other workers and part (Pjfl) with Wild horse Mountain Formation. Maximum thickness of upper part app 2,300 ft (700 m); maximum thickness of lower part approximately 1,300 (400 m) south o

STANLEY GROUP (MISSISSIPPIAN)-Predominantly poorly exposed, dive-gray (5Y3/2 olive-gray (5Y5/2), fissile, noncalcareous shale and thin siltstone beds with Wocky to siltstone masses. "Pencil" structure typical in shales; siltstone bysshow cone-in-cone structu Contains sandstone beds that average about 50 cm thick, varying from 5 cm to amalgamate much as 10 m thick. Sandstone is medium gray (N5) to olive gray (5Y4/1), fine-grain stratified to massive, typically slightly graded, and noncalcareous or calcareous. Rounde and chert grains (1-5 mm) relatively abundant near base of some sandstone beds. Organi plant debris, and pyrite disseminated throughout. Bases of sandstone boadly blanar, but so marks (load, groove, and flute casts, trace fossils) locally present. Shale rip-up cla abundant. Laminated, blocky, brittle, dark-colored siliceous shale or chert present a throughout upper part of unit. Correlates with Moyers and Chickasaw Creek Formation workers. Maximum thickness approximately 1700 ft (500 m) south of Windingstair fault

..... MARKER BED

THRUST FAULT-Sawteeth on upper plate; dashed where approximately located; dotted where concealed

_________________________FAULT-Arrows show relative horizontal movement; dashed where approximately located; dotted where concealed ANTICLJNE-Showing crestline; arrow shows direction of plunge; dashed where approximately located; dotted

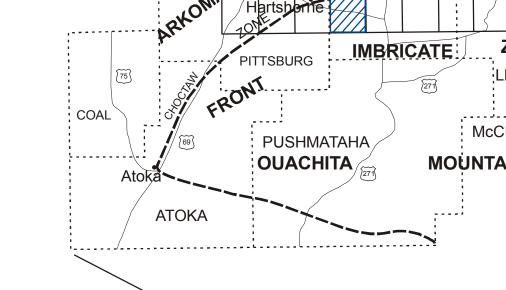
where concealed OVERTURNED SYNCLINE-Arrows show direction of dip of limbs; dashed where approximately located; dotted

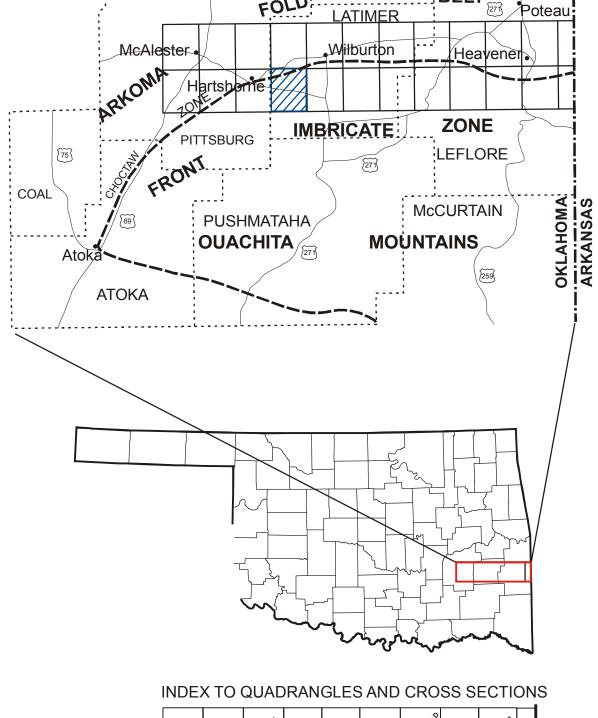
where concealed STRIKE AND DIP OF BEDS

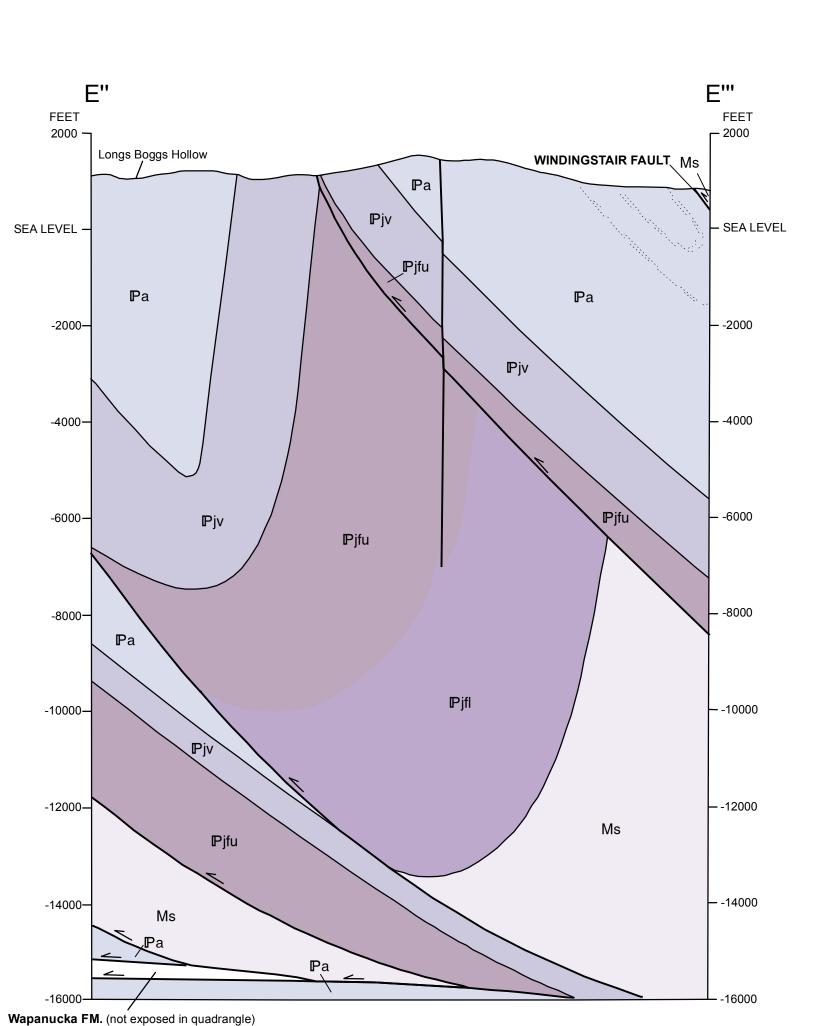
- Strike and dip of beds, facing direction unknown Vertical beds, facing direction unknown
- Strike and dip of beds, upright
- Vertical beds, ball indicates top of beds [†] Strike and dip of beds, overturned
- OIL AND GAS WELLS
- Status unknown as of January 1,1988 Dry hole, abandoned
- LIST OF WELLS
 1. Empire 1 Peters, Spud 5/24/61, TD 1,100'

2. Holland and Barnes 1 McCoy, Spud 12/14/52, TD 850'

3. Wellhead Compression 2 Sumar, Spud 11/10/87







Cross section based on surface geology

Sandstone beds (stippled) diagrammatic to show structure



