

U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

HISTORICAL GEOLOGY SHEET

INDIAN TERRITORY
ATOKA QUADRANGLE

LEGEND (continued)

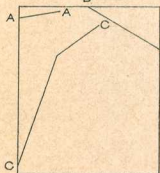
IGNEOUS ROCKS
(Areas of igneous rocks are shown by patterns of triangles and rhombs)

Tishomingo granite
(pink porphyritic granite with occasional diabase dikes)

Faults

Concealed faults
(Continuation of known faults beneath Cretaceous strata)

Sections



Dip and strike of stratified rocks

LEGEND

SEDIMENTARY ROCKS

(Areas of sedimentary rocks are shown by patterns of parallel lines)

Ks
Silo sandstone
(partially consolidated brown sandstone and shale)

Kb
Bennington limestone
(blue or yellowish blue compact shell limestone)

Kbk
Bokchito formation
(friable shale and sandstone with few beds of limestone)

Kc
Caddo limestone
(limestone and marly clay interstratified)

Kk
Kiamichi formation
(blue marly clay with shell limestone beds)

Kgl
Goodland limestone
(white massive and thin limestone)

Kt
Trinity sand
(yellow sand with gravel at the base)

Cb
Boggy shale
(shale with many beds of brown sandstone)

Cs
Savanna sandstone
(several thick sandstone beds separated by shale)

Cm
Mc Alester shale
(shale and coal with several sandstone beds interstratified)

Ch
Hartshorne sandstone
(brown sandstone beds with some shale interstratified)

Ca
Atoka formation
(shale with many lenses of sandstone)

Cc
Chickachoc chert lentil
(white colorous chert sandstone in the Atoka formation)

Cw
Wapanucka limestone
(blue and white limestone with chert sandstone and shale)

Ccy
Caney shale
(black and blue shale with chert and limestone lentils)

Cwf
Woodford chert
(black flint chert and shale)

Sh
Hunton limestone
(white and yellow limestone)

Ss
Sylvan shale
(blue friable shale)

Sv
Viola limestone
(blue thin-bedded limestone)

Ssp
Simpson formation
(thin limestone, shale and sandstone)

Sa
Arbuckle limestone
(blue thick-bedded limestone)

Sr
Regan sandstone
(sandstone and arkose conglomerate)

Sst
Stringtown shale
(blue and black shale cherty at the top)

Sf
Talihina chert
(flint, chert and shale in thin layers)

Ssl
Standley shale
(greenish and blue shale with friable chert sandstone)

Ssj
Jackfork sandstone
(massive and thin bedded brown sandstone)

Ssk
Kiamichi sandstone
(massive and thin bedded brown sandstone)

Ssl
Standley shale
(greenish and blue shale with friable chert sandstone)

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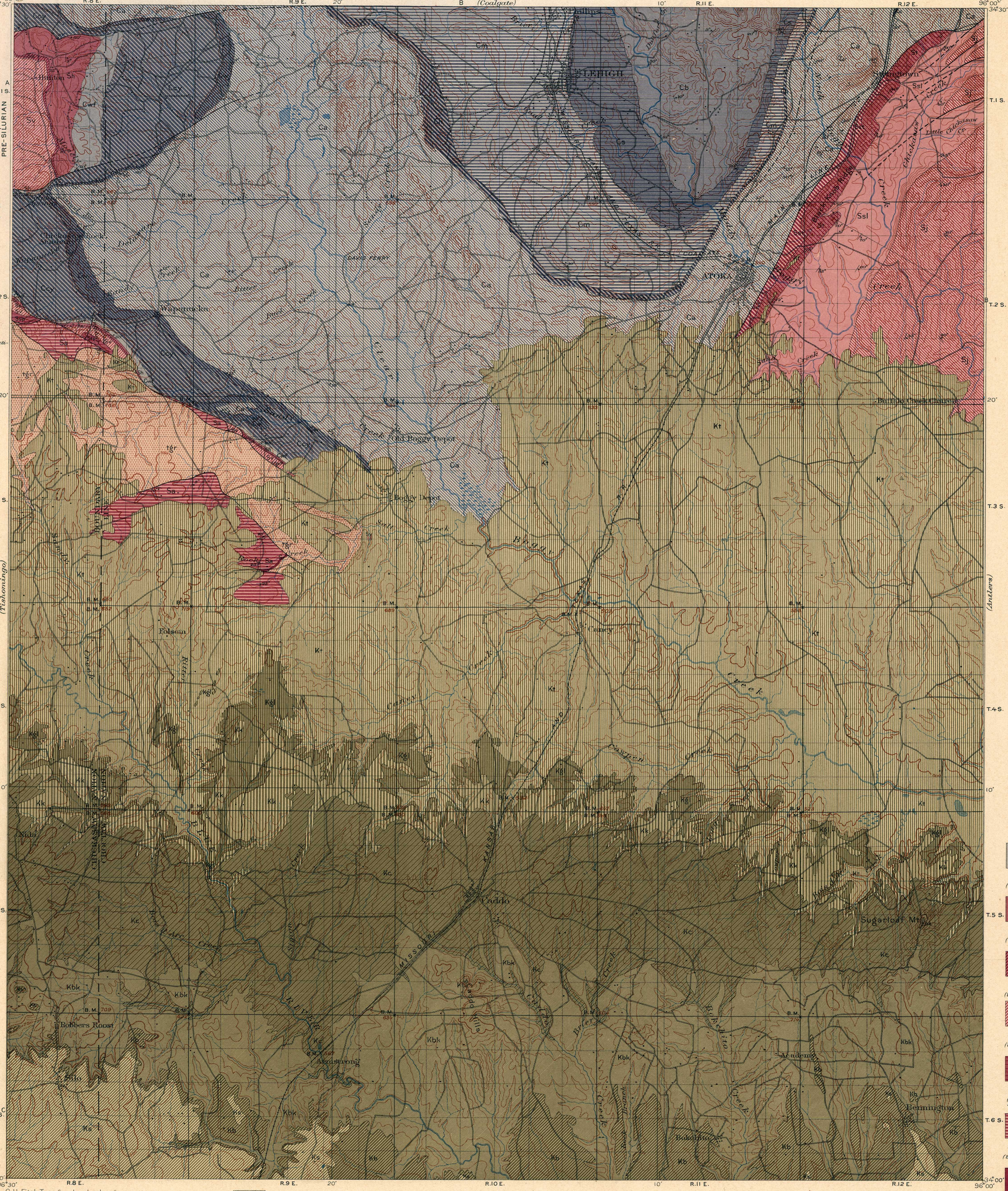
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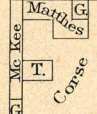
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C. H. Fitch, Topographer in charge.
Van H. Manning, Topographer, Assistant in charge.
Triangulation by C. F. Furquhart.
Topography by W. B. Corse, F. E. Matthes, R. M. Towson,
R. H. McKee, and C. W. Goodlove.
Surveyed in 1895-96-97-98.



Scale 1:25,000
1 2 3 4 5 Miles
1 2 3 4 5 Kilometers

Contour interval 50 feet.
Datum is mean sea level.
Edition of July 1901.

Geology by Joseph A. Taff.
Assisted by George I. Adams and
George B. Richardson.
Surveyed in 1897 and 98.

Legend is continued on the left margin.